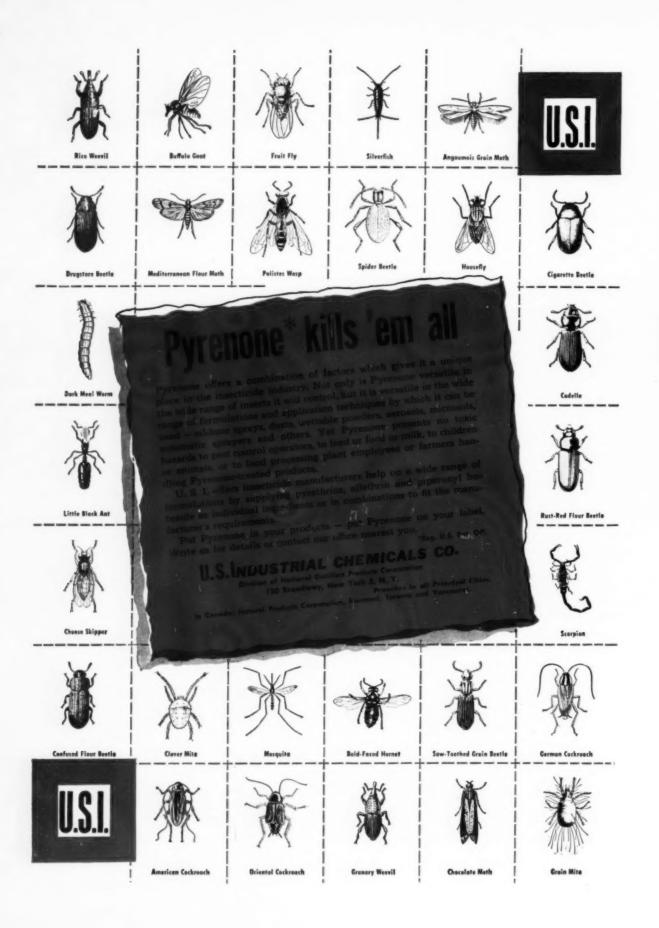
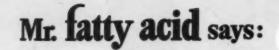
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1953 BLUE BOOK

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Buyers' Guide Section

LISTED on the following pages in alphabetical order are leading sources of supply for raw materials, equipment, containers, and also bulk and private brand finished products and accessories bought by manufacturers, converters, repackers and distributors of soaps, detergents, cleaners, insecticides, disinfectants, floor waxes, polishes, aerosols and allied products, including janitor sanitary supplies.

Every attempt has been made to keep the listings complete and accurate. If your firm is not listed and sells raw materials, equipment, bulk products, accessories, etc., to members of these industries, please let us know so that we may include your name in the listings in next year's edition. It should be borne in mind, however, that the BLUE BOOK is designed for firms selling TO THE TRADE and is not intended as a reference for consumers of finished products.

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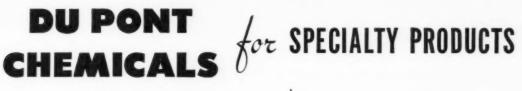
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Connecticut Chem. Research Corp., Bridgeport 5, Conn.
Davies-Young Soap Co., Dayton, Ohio
Edco Corp., Elkton, Md.
Fluid Chem. Co., 860 Summer Ave., Newark, N. J.
Fuld Bros., 710 S. Wolfe St., Baltimore, Md.
General Chemical Div., Allied Chemical & Dye Corp.,
40 Rector St., N. Y. 6
Gulf Oil Corp., Pittsburgh 30, Pa.
Hysan Prods. Co., 932 W. 38 Pl., Chicago 9, Ill.
Jasgo Chem. Co., 1128 St. Johns Pl., B'klyn, N. Y.
Regal Chemical Corp., 115 Dobbins St., B'klyn 22, N. Y.
Ronor Corp., 1360 W. 9th St., Cleveland, Ohio
Sparklet Devices, Inc., 272 Badger Ave., Newark 8, N. J.
Tetco Co., 3350 San Fernando Rd., Los Angeles 65, Calif.
Tru-Pine Co., 7638 Vincennes Ave., Chicago 20, Ill.
James Varley & Sons, 1200 Switzer Ave., St. Louis 15,
Mo.
Virginia Smelting Co., W. Norfolk, Va.
Uncle Sam Chem. Co., 575 W. 131 St., N. Y. 27
G. H. Wood & Co., Toronto, Can.
Woodlets, Inc., Portland, Pa.

AEROSOL PROPELLANTS

General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6 Kinetic Chemicals Div., E. I. du Pont de Nemours & Co., Wilmington, Del.

AEROSOL VALVES (see Valves, Aerosol)

AGITATORS (see Mixing Machinery)

AGRICULTURAL INSECTICIDES

Agicide Laboratories, 1717 Taylor Ave., Racine, Wis. American Agricultural Chem. Co., 50 Church St., N. Y. American-British Chem. Supplies, 180 Madison Ave., N. Y. 16
American Cyanamid Co., 30 Rockefeller Plaza, N. Y. American Potash & Chem. Corp., 3100 E. 26th St., Los Angeles
Arnold Laboratories, 1515 W. Glenoaks Blvd., Glendale, Calif.
Atlas Powder Co., Wilmington, Dela.
California Spray-Chemical Corp., Richmond, Calif.
Carbide & Carbon Chem., 30 E. 42nd St., N. Y.
Cenol Co., 4250 N. Pulaski Ave., Chicago
Chipman Chemical Co., Bound Brook, N. J.
Columbia Chemical Co., 154 E. Erie St., Chicago 11
Commercial Solvents Corp., 260 Madison Ave., N. Y.
Derris, Inc., 120 Wall St., N. Y.
Diamond Alkali Co., Cleveland 14
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Geigy Co., 89 Barclay St., N. Y.
General Chem. Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
James Good, Inc., 2116 E. Susquehanna Ave., Phila.
Griffin Chem. Co., 1000 16th St., San Francisco
Heckathorn & Co., Richmond, Calif.
Hercules Powder Co., 961 Market St., Wilmington, Del.
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.
Julius Hyman Div., Shell Chemical Corp., Denver, Colo.
Industrial Management Corp., 3350 San Fernando Rd.,
Los Angeles 65
Kay-Fries Chemicals, 180 Madison Ave., N. Y. 16
Kolker Chem. Works, Div. Diamond Alkali Co., Bolister
St., Newark, N. J.

Koppers Co., Koppers Bldg., Pittsburgh
Mathieson Chem. Corp., Baltimore 3
McLaughlin Gormley King Co., 1715—5th St., S. E.,
Minneapolis
Michigan Chem. Corp., St. Louis, Mich.
Monsanto Chem. Corp., St. Louis 4
S. B. Penick & Co., 50 Church St., N. Y.
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Pittsburgh Agricultural Chem. Co., 350 Fifth Ave.,
N. Y. 1
John Powell & Co., 1 Park Ave., N. Y. 1
Prentiss Drug & Chem. Co., 110 William St., N. Y.
Private Brands, Inc., 300 S. 3 St., Kansas City, Kans.
J. W. Quinn Drug Co., Greenwood, Miss.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Shell Chemical Corp., 50 W. 50th St., N. Y. 20
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago
Standard Oil Co. (Calif.), 225 Bush St., San Francisco
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Thompson-Hayward Chem. Co., Kansas City, Mo.
Tobacco By-Products & Chem. Corp., Richmond, Va.
U. S. Industrial Chems., Inc., 120 Broadway, N. Y. 5
Velsicol Corp., 330 E. Grand Ave., Chicago
Virginia-Carolina Chemical Corp., Richmond, Va.
Westvaco Chem. Div., Food Mach. & Chem. Corp., 405
Lexington Ave., N. Y. 17
Woburn Chemical Corp., Harrison, N. J.
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

AGRICULTURAL INSECTICIDE SPREADERS

Alrose Chem. Co., Box 1294, Providence, R. I.
American-British Chem. Supplies, 180 Madison Ave.,
N. Y. 16
American Colloid Co., Merchandise Mart Plaza, Chicago
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Antara Chemicals, Div. of General Dyestuff Corp., 435
Hudson St., N. Y. 14
Attapulgus Clay Co., 210 W. Washington Sq., Phila.
Atlantic Refining Co., 260 South Broad St., Phila.
Atlantic Refining Co., 260 South Broad St., Phila.
Atlas Powder Co., Wilmington 99, Del.
California Industrial Minerals Co., Friant, Calif.
California Spray-Chemical Corp., Richmond, Calif.
Carbide & Carbon Chemicals Co., 30 E. 42nd St., N. Y.
Colloidal Products Corp., 2598 Taylor St., San Francisco
Commercial Solvents Corp., 260 Madison Ave., N. Y.
Crystal Soap & Chemical Co., 6300 State Rd., Phila.
Derris, Inc., 120 Wall St., N. Y.
Dicalite Div., 612 S. Flower St., Los Angeles, Calif.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Eastern Magnesia Talc Co., Burlington, Vt.
Emulsol Corp., 59 E. Madison St., Chicago
Geigy Co., 89 Barclay St., New York
General Chem. Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y. 6
Griffin Chem. Co., 1000 16th St., San Francisco
Heckathorn & Co., Richmond, Calif.
Hercules Powder Co., 961 Market St., Wilmington, Dela.
Kay-Fries Chemicals, Inc., 180 Madison Ave., N. Y.
Kesnler Chem. Co., 7272 State Rd., Phila.
Miller Products Co., 1932 S. W. Water Ave., Portland,
Ore.
Miranol Chemical Co., 16 Melville Pl., Irvington, N. J.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
National Aniline Div. 40 Rector St., N. Y.
Nopco Chemical Co., Harrison, N. J.
Onyx Oil & Chemical Co., 190 Warren St., Jersey City
2, N. J.
Refined Prods. Corp., Lyndhurst, N. J.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
F. E. Schundler & Co., 508 Railroad St., Joliet, Ill.
R. T. Vanderbilt Co., 230 Park Ave., N. Y.

ALCOHOL (Ethyl and Denatured)

(see also Dealers)

Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati 29, Ohio Buffalo Solvents & Chemicals Corp., Box 73 Station B, Buffalo 7, N. Y. Carbide & Carbon Chemicals, 30 E. 42nd St., N. Y.

ALCOHOL (Ethyl and Denatured) (Contd.)

Central Solvents & Chemicals Co., 2545 W. Congress St., Chicago 12, Ill.
Commercial Solvents Corp., 260 Madison Ave., N. Y. Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis 22, Ind.
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio
Pennsylvania Sugar Co., 139 S. 3rd St., St. Louis Publicker Industries, Inc., 1429 Walnut St., Phila. 2
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Shell Chem. Corp., 50 W. 50 St., N. Y. 20
Southern Solvents & Chemicals Corp., 1352 Jefferson Highway, New Orleans 18, La.
Texas Solvents & Chemicals Co., 8501 Market St., Houston 15, Texas
United Distillers of America, 350—5th Ave., N. Y. 1
U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5
Western Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee 14, Wis.
Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids 9, Mich.

ALCOHOL (Methyl or Wood) (see also Methanol)

(see also Dealers)

Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati 29, Ohio
J. T. Baker Chem. Co., Phillipsburg, N. J.
Buffalo Solvents & Chemicals Corp., Box 73 Station B, Buffalo 7, N. Y.
Carbide & Carbon Chemicals, 30 E. 42nd St., N. Y.
Carbide & Carbon Chemicals, 30 E. 42nd St., N. Y.
Carbide & Carbon Chemicals Co., 2545 W. Congress St., Chicago 12, Ill
Cliffs-Dow Chemical Co., Marquette, Mich.
E. W. Colledge, General Sales Agent, Inc., P. O. Box 389
Jacksonville, Fla.
Commercial Solvents Corp., 260 Madison Ave., N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis 22, Ind.
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.
Mathieson Chemical Corp., Mathieson Bldg., Balto.
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.
Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio
Publicker Industries, Inc., 1429 Walnut St., Phila. 2
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Rector St., N. Y. 6
Southern Solvents & Chemicals Corp., 1352 Jefferson Highway, New Orleans 18, La.
Tennessee Eastman Co., Kingsport, Tenn.
Tennessee Prods. & Chem. Corp., American National Bank Bldg., Nashville, Tenn.
Texas Solvents & Chemicals Co., 8501 Market St., Houston 15, Texas
U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit 11, Michigan
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee 14, Wis.
Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids 9, Mich.
Wood Products Co., Buffalo, N. Y.

ALCOHOL, ISO-OCTYL

Enjay Co., Inc., 15 W. 51st St., N. Y. 19 Indoil Chemical Co., 910 S. Michigan Ave., Chicago

ALCOHOL, ISO-PROPYL

Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati 29, Ohio Buffalo Solvents & Chemicals Corp., Box 73 Station B, Buffalo 7, N. Y. Carbide & Carbon Chemicals, 30 E. 42nd St., N. Y.
Central Solvents & Chemicals Co., 2545 W. Congress St.,
Chicago 12, Ill
Commercial Solvents Corp., 260 Madison Ave., N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Enjay Co., 15 W. 51st St., New York
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector
St., N. Y. 6
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,
Indianapolis 22, Ind.
Merck & Co., Rahway, N. J.
Missouri Solvents & Chemicals Co., 419 De Soto Ave.,
St. Louis 7, Mo.
Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Shell Chemical Corp., 50 W. 50th St., N. Y. 20
Southern Solvents & Chemicals Corp., 1352 Jefferson
Highway, New Orleans 18, La.
Texas Solvents & Chemicals Co., 8501 Market St.,
Houston 15, Texas
U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,
Detroit 11, Michigan
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,
Milwaukee 14, Wis.
Wolverine Solvents & Chemicals Co., 1500 Century Ave.,

ALDRIN

Julius Hyman, Div., Shell Chemical Corp., Denver, Colo.

ALDRIN FORMULATIONS

S.W., Grand Rapids 9, Mich.

Agricultural Chemicals, Inc., Greenville, Miss.
Agricultural Processing Industries, Denver, Colo.
Arizona Fertilizers, Inc., Phoenix, Arizona
Atlas Chem. Corp., Waynesboro, Ga.
California Spray-Chemical Corp., Richmond, Calif.
Carolina Chemicals, Inc., West Columbia, S. C.
Chapman Chem. Co., 707 Dermon Bldg., Memphis, Tenn.
Chipman Chemical Co., Bound Brook, N. J.
Coahoma Chemical, Inc., Beacon, N. Y.
Flag Sulphur & Chemical Co., Tampa, Fla.
Florida Agricultural Supply Co., P. O. 658, Jacksonville,
Fla.
Geigy Co., 89 Barclay St., N. Y.
General Chemical Div., Allied Chemical & Dye Corp.,
40 Rector St., N. Y.
McLaughlin Gormley King Co., 1715 5th St., S.E., Minneapolis 14
Naco Fertilizer Co., Charleston, S. C.
S. B. Penick & Co., 50 Church St., N. Y. 8
Pittsburgh Agricultural Chem. Co., 350 5th Ave., N. Y.
Plainsman Supply Co., Plainview, Texas
Reasor-Hill Corp., Jacksonville, Ark.
Shell Chemical Corp., 500 5th Ave., N. Y.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Tobacco By-Products & Chem. Corp., 401 East Main St.,
Richmond, Va.
Triangle Chemical Co., Macon, Ga.
Tyner Petrus Co., W. Monroe, La.
Woolfolk Chemical Wks., Fort Valley, Ga.

ALKALIES (see Caustic Soda, Soda Ash, Caustic Potash, etc.)

ALLETHRIN

Benzol Products Co., Newark, N. J.
Carbide & Carbon Chem., 30 E. 42nd St., N. Y. 17
McLaughlin, Gormley, King Co., 1715 S. E. 5th St.,
Minneapolis, Minn.
S. B. Penick & Co., 50 Church St., N. Y. 8
John Powell & Co., 1 Park Ave., N. Y.
Prentiss Drug & Chem. Co., 110 William St., N. Y.
U. S. Industrial Chems. Inc., 120 Broadway, N. Y. 5

ALUMINUM CHIPS (for Drain Solvent)

Aluminum Co. of Amer., Gulf Bldg., Pittsburgh Belmont Smelting & Ref. Co., 318 Belmont Ave., Bklyn., N. Y. Reynold Metals Co., 19 Rector St., N. Y.

ALUMS

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. Armour & Co., 1355 W. 31st St., Chicago E. I. du Pont de Nemours & Co., Wilmington, Del. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland Innis, Speiden & Co., 117 Liberty St., N. Y.
Mallinckrodt Chemical Wks., 22 Mallinckrodt St., St. Louis 7
Mathieson Chemical Corp., Baltimore 3
Merck & Co., Rahway, N. J.
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Stauffer Chem. Co., 420 Lexington Ave., N. Y.

AMINOHYDROXY COMPOUNDS

Carbide & Carbon Chem., 30 E. 42nd St., N. Y. Commercial Solvents Corp., 260 Madison Ave., N. Y. Jefferson Chemical Co., 260 Madison Ave., N. Y. 16 Mallinckrodt Chemical Wks., St. Louis 7 Nopco Chem. Co., Harrison, N. J.

AMMONIA, HOUSEHOLD (see Household Ammonia)

AMMONIA WATER

(see also Dealers)

Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
Dow Chemical Co., Midland, Mich.
Eastern Industries, Inc., Ridgefield, N. J.
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Innis, Speiden & Co., 117 Liberty St., N. Y.
Mallinckrodt Chemical Wks., St. Louis
Mathieson Chemical Corp., Baltimore 3
Merck & Co., Rahway, N. J.
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Jos. Turner & Co., Ridgefield, N. J.

AMMONIUM CARBONATE

(see also Dealers)

American-British Chem. Supplies, Inc., 180 Madison Ave., N. Y.
American Agricultural Chem. Co., 50 Church St., N. Y.
J. T. Baker Chem. Co., Phillipsburg, N. J.
E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Innis, Speiden & Co., 117 Liberty St., N. Y.
Mallinckrodt Chemical Wks., 2nd & Mallinckrodt Sts., St. Louis 7
Merck & Co., Rahway, N. J.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
Jos. Turner & Co., Ridgefield, N. J.

AMMONIUM CHLORIDE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. J. T. Baker Chem. Co., Phillipsburg, N. J. Commercial Solvents Corp., 260 Madison Ave., N. Y. E. I. du Pont de Nemours & Co., Wilmington, Del. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6 Innis, Speiden & Co., 117 Liberty St., N. Y.

Mallinckrodt Chemical Wks., 2nd & Mallinckrodt Sts., St. Louis 7 Merck & Co., Rahway, N. J. Penna. Salt Mfg. Co., Widener Bldg., Phila. Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10 Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y. Jos. Turner & Co., Ridgefield, N. J. Welch, Holme & Clark Co., 439 West St., N. Y. 14

AMYL SALICYLATE (see Aromatic Chemicals)

ANISE OIL (see Essential Oils)

ANT POISONS

American Fluoride Corp., 151 W. 19th St., N. Y. Ampion Corp., 4-88 47 Ave., Long Island City, N. Y. Arnold Laboratories, 1515 W. Glenoaks Blvd., Glendale, Calif.

Barton Chemical Co., 3907 S. Langley Ave., Chicago California Spray-Chemical Corp., Richmond, Calif. Chase Prods. Co., 1816 St. Charles Rd., Maywood, Ill. Continental Car-Na-Var Corp., Brazil, Ind. Foote Mineral Co., 1609 Summer St., Phila. Fuld Bros., 702 S. Wolfe St., Baltimore Exterminating Materials Co., 555 W. 22nd St., N. Y. Geigy Co., Inc., 89 Barclay St., N. Y. 8 Heckathorn & Co., Richmond, Calif. Hysan Products Co., 932 W. 38th Place, Chicago Idico Prods. Co., 1 W. 125th St., N. Y. Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J. Ketoid Chem. Co., 339 S. Van Deventer, St. Louis O. E. Linck Co., 51 James St., Montclair, N. J. S. P. Penick & Co., 50 Church St., N. Y. 8 Pfaltz & Bauer, Inc., Empire State Bldg., N. Y. Private Brands, Inc., 300 S. 3 St., Kansas City, Kans. J. W. Quinn Drug Co., Greenwood, Miss. Sennewald Drug Co., Inc., 2721 Chouteau Ave., St. Louis Trio Chem. Wks., 341 Scholes St., Brooklyn J. A. Tumbler Labs., 423 Hanover St., Baltimore Uncle Sam Chem. Co., 573 W. 131st St., N. Y. U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12

ANTI-OXIDANTS (for Soaps, Oils, Fats, etc.)

Alrose Chemical Co., P. O. Box 1294, Providence, R. I. Archer-Daniels-Midland Co., Minneapolis 2
Benson Process Engineering Co., Eden, N. Y. Bersworth Chemical Co., Framingham, Mass. Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y. E. I. du Pont de Nemours & Co., Wilmington, Del. Fine Organics, Inc., 211 E. 19th St., N. Y. 3
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y. B. F. Goodrich Chemical Co., Cleveland 15
Griffin Chem. Co., 1000 16th St., San Francisco
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17
Koppers Co., Pittsburgh 19
Mathieson Chemical Corp., Mathieson Bldg., Balto.
Merck & Co., Rahway, N. J.
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis
National Aniline Division, 40 Rector St., N. Y.
Sharples Chemicals, Inc., 123 S. Broad St., Phila. 9
Shell Chem. Corp., 50 W. 50th St., N. Y. 20
Sindar Corp., 330 W. 42nd St., N. Y. 18
Tennessee Eastman Co., Kingsport, Tenn.
Van Dyk & Co., Belleville 9, N. J.

ANTISEPTIC DETERGENTS (See Detergents, Antiseptic Liquid)

ANTISEPTIC SOAP (See Soaps, Antiseptic)

ANTU CONCENTRATES

Chase Prods. Co, 1816 St. Charles Rd., Maywood, Ill. Fine Organics, Inc., 211 E. 19th St., N. Y. 3 Heckathorn & Co., Richmond, Calif. Hysan Prods. Co., 932 W. 38 Pl., Chicago 9

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APPLICATORS (for Floor Wax)

American Standard Mfg. Co., 2509 S. Greene St., Chicago Chem. Service of Baltimore, Howard & West Sts., Balto. Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago

Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Continental Car-Na-Var Corp., Brazil, Ind.
Dutro Co., 2155 Webster St., Alameda, Calif. Empire Brushes, Port Chester, N. Y.
Fuld Bros., 702 S. Wolfe St., Baltimore
H. Hertzberg & Son, Inc., 2300 Fifth Ave., N. Y.
Higley Chem. Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
Hysan Products Co., 932 W. 38th Place, Chicago
S. C. Johnson & Son, 1155 Howe St., Racine, Wisc.
Laitner Brush Co., 2000 Brooklyn Ave., Detroit
Lowell Mfg. Co., 589 E. Illinois St., Chicago
Midland Laboratories, 210 Jones St., Dubuque, Iowa
Palmer Fixture Co., Box 347, Waukesha, Wisc.
Pioneer Mfg. Co., 3053 E. 87th St., Cleveland
Rex-Cleanwell Corp., 238 S. Murphy Ave., Brazil, Ind.
D. B. Smith & Co., 414 Main St., Utica 2
H. F. Staples Co. Medford, Mass.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
U. S. Sanitary Specialties, 1001 S. California Ave.,
Chicago U. S. Chicago

AROMATIC CHEMICALS (for Perfuming)

Albert Albek, Inc., 3573 Hayden Ave., Culver City, Calif. American-British Chem. Supplies Inc., 180 Madison Ave., N. Y.

Aromatic Products, Inc., 15 E. 30th St., N. Y. 16
Aroscent, Inc., Main & Chestnut Sts., Dobbs Ferry, N. Y.
Berje Products Co., 616 W. 44th St., N. Y. 18
Ph. Chaleyer, Inc., 160 E. 56th St., N. Y.
Charabot, Inc., 132 Nassau St., N. Y. 38
De Laire Aromatics, 180 Varick St., N. Y.
Dodge & Olcott, Inc., 180 Varick St., N. Y.
Dow Chemical Co., Bush Aromatics Div., 629 Grove St.,
Jersey City 2

Jersey City 2

Dow Chemical Co., Bush Aromatics Div., 629 Grove St., Jersey City 2
P. R. Dreyer, Inc., 117½ W. 19th St., N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del. Felton Chemical Co., 603 Johnson Ave., Brooklyn Firmenich, Inc., 250 W. 18th St., N. Y.
Florasynth Laboratories, 1513 Olmstead Ave., Bronx, N. Y.
Benj. French, Inc., 160 Fifth Ave., N. Y.
Genj. French, Inc., 160 Fifth Ave., N. Y.
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.
Gunning & Gunning, 601 W. 26th St., N. Y.
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17
D. W. Hutchinson & Co., 162 Front St., N. Y.
Kay-Fries Chemicals, Inc., 180 Madison Ave., N. Y.
Lautier Fils Inc., 321 Fifth Ave., N. Y.
Geo. Lueders & Co., 427 Washington St., N. Y.
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.
A. Maschmeijer, Jr., Inc., 45 West 16th St., N. Y.
Naugatuck Aromatics, 254 Fourth Ave., N. Y.
Neumann-Buslee & Wolfe, 224 W. Huron St., Chicago N. Y. Aromatics Corp., High Bridge, N. J.
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y
Northwestern Chemical Co., Wauwatosa, Wis.
Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J.
Orbis Products Corp., 215 Pearl St., N. Y.
Perry Bros., Inc., 220 Flushing Ave., Brooklyn
Polak's Frutal Wks., Inc., 33 Sprague Ave., Middletown, N. Y.
Polak & Schwarz, Inc., 667 Washington St., N. Y.
Polarome Mfg. Co., 73 Sullivan St., N. Y.

Polak & Schwarz, Inc., 667 Washington St., N. Y. Polarome Mfg. Co., 73 Sullivan St., N. Y. 12 Roubechez, Inc., 8 E. 12th St., N. Y. 3 Roure-Dupont 366 Madison Ave., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Seeley & Co., Nyack, N. Y. Synfleur Scientific Labs., Monticello, N. Y. Syntomatic Corp., 114 E. 32nd St., N. Y.

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Tennessee Eastman Co., Kingsport, Tenn.
Hans Tobeason, Inc., 38 Rector St., N. Y. 6
A. M. Todd Co., Kalamazoo, Mich.
Tombarel Products Corp., 12 E. 22nd St., N. Y.
Trubek Laboratories, E. Rutherford, N. J.
Ungerer & Co., 161 Sixth Ave., N. Y.
van Ameringen-Haebler, Inc., 521 W. 57 St., N. Y. 19
Van Dyk & Co., Belleville, N. J.
Albert Verley, Inc., 440 W. Superior St., Chicago
Verona Chemical Co., 26 Verona Ave., Newark, N. J.

ARSENIC (White Arsenic)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. American Cyanamid Co., 30 Rockefeller Plaza, N. Y. American Smelting & Refining Co., 120 Broadway, N. Y. J. T. Baker Chem. Co., Phillipsburg, N. J. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6 Heckathorn & Co., Richmond, Calif. Innis, Speiden & Co., 117 Liberty St., N. Y. Merck & Co., Rahway, N. J. Chas. Page & Co., 50 E. 42nd St., N. Y. 17 Prentiss Drug & Chem. Co., 110 William St., N. Y. Rosenthal Bercow Co., 25 E. 26th St., N. Y.

ARSENICAL DIPS

Baird & McGuire, Inc., Holbrook, Mass.
California Spray-Chemical Corp., Richmond, Calif.
Chipman Chemical Co., Bound Brook, N. J.
Wm. Cooper & Nephews, 1909 Clifton Ave., Chicago
Crystal Soap & Chemical Co., 6300 State Rd., Phila.
Fuld Bros., 702 S. Wolfe St., Baltimore 31, Md.
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
James Good Co., Susquehanna Ave. and Martha Ave.,
Phila Phila. Phila.
Hysan Prods., 932 W. 38th Place, Chicago
Industrial Materials Co, 1017 McCall St., Houston, Tex.
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Koppers Co., Koppers Bldg., Pittsburgh
McLaughlin Gormley King Co., Minneapolis
Thompson-Hayward Chemical Co., 2915 Southwest Blvd., Kansas City, Mo.
S. Sanitary Spec. Corp., 1001 S. California Blvd., U. S. Sanitary Spec. Corp., 2002 Chicago 12 James Varley & Sons, 1200 Switzer Ave., St. Louis

ATOMIZERS (see Sprayers and Atomizers, Bottle)

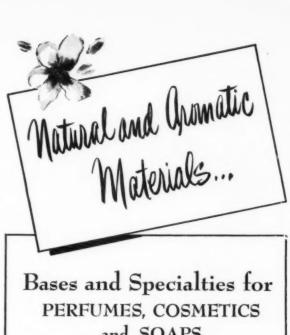
AUTO SOAPS (see Potash Soaps)

BAGS (Cloth)

Bemis Bro. Bag Co., 601 S. 4th St., St. Louis Central Bag & Burlap Co., 4513 S. Western Blvd., Chicago Chase Bag Co., 309 W. Jackson Blvd., Chicago Dayton Bag & Burlap Co., Dayton, Ohio Fulton Bag & Cotton Mills, Atlanta, Ga. Hammond Bag & Paper Co., Wellsburg, W. Va. Mente & Co., Montegut & N. Villere Sts., New Orleans, La. Paper Service Co., Lockland, Cincinnati Virginia-Carolina Chem. Corp., Richmond, Va.

BAGS AND LINERS (Paper)

Arkell Safety Bag Co., 10 E. 40th St., N. Y. Arkell & Smiths, Canajoharie, N. Y. Bagpak Div., Int'l Paper Co., 220 E. 42nd St., N. Y. Bemis Bro. Bag Co., 601 S. 4th St., St. Louis Chase Bag Co., 309 W. Jackson Blvd., Chicago 6 Fulton Bag & Cotton Mills, Atlanta, Ga. Hammond Bag & Paper Co., Wellsburg, W. Va. Kraft Bag Corp., 630—5th Avc., N. Y. 20 Nashua Gummed & Coated Paper Co., Nashua, N. H. St. Regis Paper Co., 230 Park Avc., N. Y. Union Bag & Paper Co., 233 Broadway, N. Y. Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.



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Carvacrol Phellandrene
Citral Safrol
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Arkell & Smiths, Canajoharie, N. Y.
Bagpak Div., Int'l Paper Co., 220 E. 42nd St., N. Y.
Bemis Bro Bag Co., 601 S. 4th St., St. Louis
Chase Bag Co., 155 E. 44th St., N. Y.
Fulton Bag & Cotton Mills, Atlanta
Hammond Bag & Paper Co., Wellsburgh, W. Va.
Hudson Pulp & Paper Co., 505 Park Ave., N. Y.
Kraft Bag Corp., 630—5th Ave., N. Y. 20
St. Regis Paper Co., 230 Park Ave., N. Y.
Union Bag & Paper Corp., 233 Broadway, N. Y.

BAGS (Plastic)

American Bag & Paper Corp., Water & South Sts., Phila. Arkell Safety Bag Co., 10 E. 40 St., N. Y. 16 Bemis Bros. Bag Co., St. Louis 2 Benj. C. Betner Co., Devon, Pa. Canton Containers, Inc., Canton, O. Cello-Masters, Inc., 1155 Randall Ave., N. Y. 59 Chase Bag Co., 309 W. Jackson Blvd., Chicago Equitable Paper Bag Co., 45-50 Van Dam St., Long Island City, N. Y. Howard Plastics, Council Bluffs, Iowa Milprint, Inc., Milwaukee, Wisc. Oneida Paper Prods., Inc., 10 Clifton Blvd., Clifton, N. J. Poly Plastic Prods., Inc., 230 State Highway 17, Lodi, N. J. N. J. C. E. Stevens Bros., Baltimore Vis-O-Tube Co., 928 Irving Park Rd., Chicago

BALSAMS

Aromatic Products, Inc., 15 E. 30th St., N. Y.
Berje Prods. Co., 616 W. 44th St., N. Y. 18
Dodge & Olcott, Inc., 180 Varick St., N. Y.
P. R. Dreyer Inc., 117½ W. 19th St., N. Y.
Felton Chemical Co., 603 Johnson Ave., Brooklyn
Florasynth Laboratories, 1513 Olmstead Ave., Bronx, Felton Chemical Co., 603 Solitable
Florasynth Laboratories, 1513 Olmstead Ave., Bronx, N. Y.
Fritzsche Brothers, Inc., 76 Ninth Ave., N. Y.
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.
Gunning & Gunning Inc., 601 W. 26th St., N. Y. 1
D. W. Hutchinson & Co., 162 Front St., N. Y.
Geo. Lueders & Co., 427 Washington St., N. Y.
Lautier Fils, Inc., 321 Fifth Ave., N. Y. 16
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.
Norda Essential Oil & Chem. Co. 601 W. 26th St., N. Y.
Orbis Products Corp., 215 Pearl St., N. Y.
S. B. Penick & Co., 50 Church St., N. Y.
Polak Schwartz, Inc., 667 Washington St., N. Y. 14
Prentiss Drug & Chemical Co., 110 William St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Frank B. Ross Co., 6-10 Ash St., Jersey City, N. J.
Roubechez, Inc., 8 E. 12th St., N. Y.
Schimmel & Co., 601 W. 26th St., N. Y.
Schimmel & Co., 601 W. 26th St., N. Y.
Synfleur Scientific Labs., Inc., Monticello, N. Y.
Tombarel Products Corp., 12 E. 22nd St., N. Y.
Ungerer & Co., 161 Sixth Ave., N. Y.
van Ameringen-Haebler, Inc., 521 W. 57 St., N. Y. 19
Albert Verley, Inc., 440 W. Superior St., Chicago

BARIUM CARBONATE

Alton Barium Prods. Co., Alton, Ill.
J. T. Baker Chem. Co., Phillipsburg, N. J.
Croton Chem. Corp., 114 Liberty St., N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Fezandie & Sperrle, 205 Fulton St., N. Y.
Foote Mineral Co., 1609 Summer St., Philadelphia
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector
St., N. Y. 6
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Innis, Speiden & Co., 117 Liberty St., N. Y.
Mallinckrodt Chem. Wks., St. Louis 7
Merck & Co., Rahway, N. J.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Westvaco Chem. Div., Food Machinery & Chem. Corp.,
405 Lexington Ave., N. Y.
Whittaker, Clark & Daniels, 260 West Broadway, N. Y.
Witco Chemical Co., 260 Madison Ave., N. Y.

BARREL LINERS (see Bags and Liners)

BARRELS (Fibre)

Canister Co., Phillipsburg, N. J.
Carpenter Container Co., 147 — 41st St., Brooklyn
Champion Container Co., Water & Morris Sts., Phila.
Columbia Can Co., 59-27 54th St., Maspeth 78, N. Y.
Container Co., Van Wert, O.
Continental Can Co., 100 E. 42 St., N. Y. 17
Diamond State Fibre Co., Bridgeport, Pa.
Federal Fiber Corp., 3704 10th St., L. I. C. 1
Master Package Corp., Owen, Wisc.
Rogers Fibre Co., 210 Lincoln St., Boston
Seymour & Peck Co. (Plywood), 565 W. Washington St.,
Chicago Spaulding Fibre Co., Rochester, N. H.

BARRELS (Metal)

American Steel Package Co., Defiance, O. Columbia Can Co., 59-27 54th St., Maspeth 78, N. Y. Continental Can Co., 100 E. 42 St., N. Y. 17 Draper Mfg. Co., Cleveland
Eastern Can Co., Keap St. & Kent Ave., Bklyn.
Globe Steel Barrel Co., Cleveland
Inland Steel-Container Co., 6532 S. Menard St., Chicago
Jones & Laughlin Steel Corp., 401 Liberty Ave., Pittsburgh
Manion Steel Barrel Co., Rouseville, Pa.
National Steel Barrel Co., 3860 E. 91st St., Cleveland
Petroleum Iron Works Co., Sharon, Pa.
Pittsburgh Can Co., Pittsburgh
Pressed Steel Tank Co., Milwaukee, Wis.
Republic Steel Package Co., 7930 Jones Rd., Cleveland
Rheem Mfg. Co., 4361 Firestone Blvd., South Gate, Cal.
St. Louis Steel Package Co., St. Louis
John Trageser Steam Copper Works, Grand Ave.,
Maspeth, L. I., N. Y.
U. S. Steel Prods. Co., 30 Rockefeller Plaza, N. Y.
Vulcan Stamping & Mfg. Co., Bellwood, Ill.
Vulcan Steel Container Co., 3315 N. 35th Ave., Birmingham, Ala. Wheeling Corrugating Co., Wheeling, W. Va.

BARRELS (Wood)

American Cooperage Co., Barber, N. J.
Bauer Cooperage Works, G. F., 1415 W. 31st St., Phila.
Boston Cooperage Co., South Boston, Mass.
Brooklyn Cooperage Co., 120 Wall St., New York
Burkhartsmeier Cooperage Co., 7240-54 S. Chicago Ave., Chicago
Chess & Wymond, Inc., Louisville
Eizner Company, John, 1050 W. Kinzie St., Chicago
Fessenden Companies, Inc., Townsend, Mass.
General Cooperage Co., Phila.
Johnson Co., Inc., T., 1046 W. 38th St., Chicago
Kimball-Tyler Co., Gough and Haven Sts., Baltimore
Kingsland Cooperage Co., Newark, N. J.
Klausner Cooperage Co., 5207 Grant Ave., Cleveland
Louisville Cooperage Co., Louisville
Milwaukee Cooperage Co., 3030 W. Auer Ave., Milwaukee
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago Chicago Chicago
Oker Sons Co., Cincinnati
Pioneer Cooperage Co., St. Louis
Pioneer Cooperage Co., Chicago
St. Louis Cooperage Co., 101 Arsenal St., St. Louis
Siemon & Sons, 1750 N. Front St., Phila. Steinmetz & Sons, 4638 Mitchell St., Detroit Stolper Cooperage Co., 2322 W. Fondulac, Milwaukee Verdi Brothers Cooperage Co., North Bergen, N. J. T. & W. Wehmier, Latonia, Ky.

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Hysan Prods. Co., 932 W. 38th Place, Chicago
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Lightfoot-Schultz Co., 1412 Park Ave., Hoboken, N. J.
M. & H. Laboratories, 2705 Archer Ave., Chicago
Port Huron Detergent Co., Port Huron, Mich.
Schmidt Soap Products, 236 W. North Ave., Chicago
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y. (Unperfumed)
Trio Chem. Wks., 341 Scholes St., Brooklyn
Welch, Holme & Clark Co., 439 West St., N. Y.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

BAY RUM

P. R. Dreyer, Inc., 117½ W. 19th St., N. Y. Chas. L. Huisking & Co., 155 Varick St., N. Y. McKesson & Robbins, 155 E. 44th St., N. Y. S. B. Penick & Co., 50 Church St., N. Y. Rosenthal Bercow Co., 25 E. 26th St., N. Y. Tombarel Products Corp., 12 E. 22nd St., N. Y. Ungerer & Co., 161 Sixth Ave., N. Y.

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BENZALDEHYDE

Aromatic Products, Inc., 15 E. 30th St., N. Y.
Berje Products Co., 616 W. 44th St., N. Y. 18
Compagnie Parento, Inc., Croton-on-Hudson, N. Y.
Dodge & Olcott Inc., 180 Varick St., N. Y.
Dow Chemical Co., Midland, Mich.
P. R. Dreyer, Inc., 117½ W. 19th St., N. Y.
Felton Chemical Co., 603 Johnson Ave., Brooklyn
Florasynth Laboratories, 1513 Olmstead Ave., Bronx,
N. Y.
Fritzsche Brothers, Inc., 76 Ninth Ave., N. Y.
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.
Heyden Chem. Co., 342 Madison Ave., N. Y. 17
Lautier Fils, 321 Fifth Ave., N. Y. 16
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.
A. Maschmeijer, Jr., Inc., 45 W. 16 St., N. Y. 11
Merck & Co., Rahway, N. J.
Orbis Products Corp., 215 Pearl St., N. Y.
Polak's Frutal Wks., 33 Sprague Ave., Middletown, N. Y.
Schimmel & Co., 601 W. 26th St., N. Y.
Tennessee Prods. & Chem. Corp., American National Bank Bldg., Nashville, Tenn.
Tombarel Products Corp., 12 E. 22nd St., N. Y.
Ungerer & Co., 161 Sixth Ave., N. Y.
van Ameringen-Haebler, Inc., 521 W. 57 St., N. Y. 19
Van Dyk & Co., Belleville, N. J.
Albert Verley, Inc., 440 W. Superior St., Chicago
Verona Chemical Co., 26 Verona Ave., Newark 4, N. J.

BENZENE HEXACHLORIDE (see also Lindane)

American Potash & Chem. Corp., 3100 E. 26th St., Los Angeles, Cal.
Calif. Spray-Chemical Corp., Richmond, Calif.
Commercial Solvents Corp., 260 Madison Ave., N. Y.
Diamond Alkali Co., Cleveland 14
Dow Chemical Co., Midland, Mich.

E. I. du Pont de Nemours & Co., Wilmington, Del.
Ethyl Corp., 100 Park Ave., N. Y.
Geigy Co., Inc., 89 Barclay St., N. Y. 8
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.
Kolker Chem. Works, Div. Diamond Alkali Co., 80 Lister St., Newark, N. J.
Mathieson Chemical Corp., Baltimore 3
Michigan Chemical Corp., St. Louis, Mich.
Monsanto Chemical Corp., St. Louis, Mich.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Phila.
Pittsburgh Agr. Chem. Co., 350 Fifth Ave., N. Y.
John Powell & Co., 1 Park Ave., N. Y. 16
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Stauffer Chemical Co., 420 Lexington Ave., N. Y.
Tennessee Prods. & Chem. Corp., American National
Bank Bldg., Nashville, Tenn.
Westvaco Chem. Div., Food Mach. & Chem. Corp., 405
Lexington Ave., N. Y.
Wyandotte Chemicals Corp., Michigan Alkali Div.,
Wyandotte, Mich.

BENZOL (Benzene)

Barrett Div., Allied Chem. & Dye Corp., 40 Rector St.. N. Y.
N. Y.
H. Bell Co., 1407 Gulf Bldg., Chicago
Hydrocarbon Products, 500 Fifth Ave., N. Y.
Koppers Co., Koppers Bldg., Pittsburgh, Pa.
Neville Co., Pittsburgh
Chas. Page & Co., 50 E. 42nd St., N. Y. 17
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Shell Chem. Corp., 50 W. 50th St., N. Y 20
Tar Residuals, Inc., 420 Lexington Ave., N. Y.

BERGAMOT OIL (see Essential Oils)

BICHROMATES

American-British Chem. Supplies, Inc., 180 Maduson Ave., N. Y.

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14

General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6

Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6

Innis, Speiden & Co., 117 Liberty St., N. Y. 6

Mallinckrodt Chem. Wks., St. Louis 7

Merck & Co., Rahway, N. J.

Mutual Chem. Co. of America, 270 Madison Ave., N. Y.

Natural Prods. Refining Co., Jersey City, N. J.

Chas. Page & Co., 50 E. 42nd St., N. Y. 17

Prior Chem. Corp., 420 Lexington Ave., N. Y.

Rosenthal Bercow Co., 25 E. 26th St., N. Y.

Jos. Turner & Co., Ridgefield, N. J.

BLEACHING AGENTS (Chemical Bleaches for Oila, Fats, Soaps, etc.)

Buffalo Electro Chem. Co., Buffalo, N. Y.
Columbia-Southern Chemical Corp., 5th Ave. & Bellefield, Pittsburgh
Diamond Alkali Co., Union Commerce Bldg., Cleveland 14
Heyden Chemical Corp., 393 7th Ave., N. Y. 1
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Mallinckrodt Chem. Co., St. Louis 7
Mathieson Chemical Corp., Balto. 3
Monsanto Chem. Co., St. Louis 4
Niagara Alkali Co., 60 E. 42nd St., N. Y.
Penna. Salt Mfg. Co., 1000. Widener Bldg., Phila.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Westvaco Chem. Div., Food Machinery & Chem. Corp.,
Chrysler Bldg., N. Y.
Wyandotte Chemicals Corp., Michigan Alkali Div.,
Wyandotte, Mich.

BLEACHING EARTHS and CARBONS (see also Clays)

Attapulgus Clay Co., 210 W. Washington Sq., Phila. Chas. B. Chrystal Co., 53 Park Pl., N. Y. Dicalite Div., 612 S. Flower St., Los Angeles, Calif. Filtrol Corp., 727 W. 7th St., Los Angeles, Calif. Filtrol Corp., 727 W. 7th St., Los Angeles J. M. Huber Corp., 100 Park Ave., N. Y. 17 Illinois Silica Co., Cairo, Ill. Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y. Innis, Speiden & Co., 117 Liberty St., N. Y. Peerless Clay & Mineral Co., Pueblo, Colo. L. A. Salomon & Bro., 216 Pearl St., N. Y. Sinclair Refining Co., East Chicago, Ind. Tamms Industries, Inc., 228 N. LaSalle St., Chicago Welch, Holme & Clark Co., 439 West St., N. Y. 14 Westvaco Chem. Div., Food Machinery & Chem. Corp., 405 Lexington Ave., N. Y. 17 Whittaker, Clark & Daniels, 260 W. Broadway, N. Y. Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich. Wyandotte, Mich.

BLEACHING EQUIPMENT (for Oils), (see Deodorizing Equipment)

BLEACHING POWDER (Chloride of Lime)

Diversey Corp., 53 W. Jackson Blvd., Chicago Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6 Innis, Speiden & Co., 117 Liberty St., N. Y. Mathieson Chemical Corp., Baltimore 3 Monsanto Chemical Co., St. Louis 4 Niagara Alkali Co., 60 E. 42nd St., N. Y. Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila. Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10 Stauffer Chem. Co., 420 Lexington Ave., N. Y. Theobald Industries, P. O. Box 72, Harrison, N. J. Jos. Turner & Co., Ridgefield, N. J. Welch, Holme & Clark Co., 439 West St., N. Y.

BLENDERS (See Mixing Machinery)

BLOCK HOLDERS (see Holders, Deodorizing Block)

BLOWERS, ELECTRIC (see Sprayers, Electric)

BLUING (see Laundry Blue)

BOILER COMPOUNDS

American Colloid Co., Merchandise Mart Plaza, Chicago Ampion Corp., 47-02 5th St., Long Island City, N. Y. Analab Laboratories, 285 Franklin St., Boston 10 Baum's Castorine Co., Rome, N. Y. Bilco Chemical Co., 607 DeGraw St., Bklyn. Briko Laboratories, 1553 63rd St., Brooklyn 19 Carbide & Carbon Chem., 30 E. 42nd St., N. Y. Chem. Service Co. of Baltimore, Baltimore 30 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago Churchill Mfg. Co., Galesburg, Ill. Clarkson Laboratories, 919 N. 9th St., Phila. Eagle Soap Corp., Huntington, Ind. Fuld Bros., 702 S. Wolfe St., Baltimore Haag Laboratories, Blue Island, Ill. Hawk-Eye Compound Co., Blue Island, Ill. Hercules Chem. Co., 332 Canal St., N. Y. Higley Chem. Co., Dubuque, Iowa R. M. Hollingshead Corp., Camden, N. J. Hysan Prods. Co., 932 W. 38th Place, Chicago Industrial Materials Co., 1017 McCall St., Houston, Tex. Jefferson Chemical Co., 260 Madison Ave., N. Y. 16 Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J. Midland Labs., Dubuque, Iowa Peck's Products Co., 610 E. Clarence Ave., St. Louis 15 Permutit Co., 330 W. 42nd St., N. Y. Theo. B. Robertson Prods. Co., 700 Division St., Chicago Rumford Co., Rumford 16, R. I. Solshine Mfg. Co., 423 Second St., Fall River, Mass. S. & S. Soap Co., 815 E. 135 St., N. Y. 54 Sugar Beet Prod. Co., Saginaw, Mich. Theobald Industries, P. O. Box 72, Harrison, N. J. Trio Chem. Wks., 341 Scholes St., Brooklyn

Ultra Chem. Wks., P. O. Box 1536, Paterson, N. J. U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12

Welch, Holme & Clark Co., 439 West St., N. Y.

Wyandotte Chemicals Corp., Michigan Alkali Div.,

Wyandotte, Mich.

Yosemite Chemical Co., 1040 Mariposa St., San Francisco

BOIS de ROSE OIL (see Essential Oils)

BORAX (and Boric Acid)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. American Potash & Chem. Corp., 122 E. 42nd St., N. Y. 17 Columbia-Southern Chem. Corp., 5th Ave. & Bellefield, Pittsburgh Pittsburgh
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Innis, Speiden & Co., 117 Liberty St., N. Y.
Pacific Coast Borax Co., 100 Park Ave., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Welch, Holme & Clark Co., 439 West St., N. Y.
Witco Chemical Co., 260 Madison Ave., N. J.

BORIC ACID (see Above)

BOTTLE DISPENSERS (see Sprayers and Atomizers, Bottle)

BOTTLE FILLING MACHINERY (see Filling Machinery

BOTTLE HANDLING EQUIPMENT (Unpacking, Cleaning, Drying, etc.)

Chisholm-Ryder Co. of Pa., Hanover, Pa. Filpaco Industries, 2464 S. Michigan Ave., Chicago Island Equipment Corp., 27-01 Bridge Plaza N., LIC, N. Y. Karl Kiefer Machine Co., 919 Martin St., Cincinnati Newman Tallow & Soap Machy. Co., 1051 W. 35 St., Chicago (Used) Packer Mchy. Corp., 32 Irving Pl., N. Y. C.
Perl Mach. Mfg. Co., 68 Jay St., Bklyn.
Pneumatic Scale Corp., N. Quincy, Mass.
Standard-Knapp Div. of Emhart Mfg. Co., Portland, Conn. Stokes & Smith Co., 4915 Summerdale Ave., Phila. U. S. Bottlers Mchy. Co., 4019 N. Rockwell St., Chicago

BOTTLE WASHERS (see Washing Machinery, Bottle)

BOTTLES AND JARS

Armstrong Cork Co., Lancaster, Pa.
Anchor Hocking Glass Corp., Lancaster, Ohio
Brockway Glass Co., Brockway, Pa.
Carr-Lowrey Glass Co., P. O. Box 356, Baltimore 3
Foster-Forbes Glass Co., Marion, Ind.
Graham Glass Co., Evansville, Ind.
Hagerty Bros. & Co., 10 Platt St., N. Y.
Hazel Atlas Glass Corp., Baltimore, Md.
Owens Illinois Glass Co., Toledo, O.
F. E. Reed Glass Co., 860 Maple St., Rochester, N. Y.
Root Glass Co., Terre Haute, Ind.
Tygart Valley Glass Co., Washington, Pa. Armstrong Cork Co., Lancaster, Pa.

BOTTLES, PLASTIC (Rigid and Squeezeable)

Elmer E. Mills Corp., 2930 N. Ashland Ave., Chicago 13 Imco Container Corp., 75th & Cleveland, Kasas City, Mo. Plax Corp., P. O. Box 1019, Hartford 1, Conn.

BOTTLE SPRAYERS (see Sprayers, Bottle)

BOX LINERS (see Bag Liners)

BOXES (Corrugated and/or Fibre)

Brooklyn Fibre Syndicate, Decatur St. & Irving Ave., Brooklyn Cambridge Paper Box Co., 196 Broadway, Cambridge, Consolidated Paper Co., Monroe, Mich. Container Corp. of America, 111 W. Washington St., Container Corp. of America, 111 W. Washington St., Chicago
Federal Fibre Corp., 3704 10th St., L. I. C. 1
Robert Gair Co., 155 E. 44th St., N. Y.
Gardner Board & Carton Co., Middletown, O.
Hinde & Dauch Paper Co., 222 Decatur St., Sandusky, O.
F. J. Kress Box Co., 2390 Liberty Ave., Pittsburgh
Liberty Corrugated Container Corp., 47-40 Metropolitan
Ave., Bklyn 37
Owens-Illinois Glass Co., Toledo, O.
W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago
Universal Folding Box Co., Monroe & 13th Sts., Hoboken. Universal Folding Box Co., Monroe & 13th Sts., Hoboken,

BOXES (Fancy Paper)

F. N. Burt Co., Ltd., 540 Seneca St., Buffalo, N. Y.
C. J. Fox Co., 236 Abron St., Providence, R. I.
Foxon Paper Co., 230 West Park St., Providence, R. I.
Robert Gair Co. 155 E. 44th St., N. Y.
Gardner Board & Carton Co., Middletown, O.
R. R. Heywood, Inc., 26th St. & 9th Ave., N. Y.
R. J. Kittredge Co., 812 W. Superior St, Chicago
Pictorial Package Co., Aurora, Ill.
Piqua Paper Box Co., Piqua, O.
Potomac Lithograph Mfg. Co., Washington, D. C.
W. C. Ritchie & Co., 880 Baltimore Ave., Chicago
Robert Paper Box Co., Montville, Conn.
Geo. Schmitt & Co., Grand & Florence Sts., Brooklyn
Strobridge Lithographing Co., Norwood Station, Cincinnati cinnati U. S. Printing & Lithographing Co., Norwood, Cincinnati Universal Folding Box Co., Monroe & 13th St., Hoboken, Carl Voss Corp., Hoboken, N. J.

BOXES (Fancy Wooden)

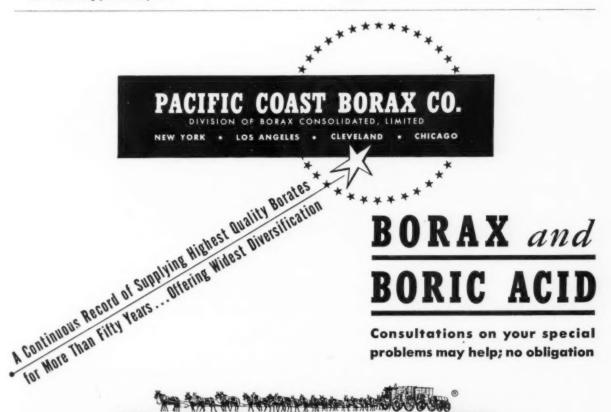
American Crayon Co., Sandusky, O. National Box & Lumber Co., Newark 5, N. J. Pilliod Cabinet Co., Swanton, O.

BROKERS (Chemicals)

American-British Chemical Supplies, 180 Madison Ave., N. Y. 16
S. H. Bell Co., 1407 Gulf Bldg., Pittsburgh
John H. Calo Co., 19 Rector St., N. Y. 6
John A. Chew, Inc., 60 E. 42nd St., N. Y.
Simon Cytron Trading Co., 50 Broad St., N. Y.
Dickerson Co., Drexel Bldg., Phila.
Griffin Chem. Co., 1000 16th St., San Francisco
Otto A. C. Hagen Co., Public Ledger Bldg., Phila.
Heckathorn & Co., Richmond, Calif.
Arnold Hoffman Co., Providence, R. I.
Chas. L. Huisking & Co., 155 Varick St., N. Y.
P. J. Lo Bue Co., 277 Park Ave., N. Y.
Leo Pasternak, Inc., 110 William St., N. Y.
Revere Oil & Chemical Co., 23 E. 26 St., N. Y. 10
Rivo Mfrs. & Distributors Co., 66-09 111 St., Forest
Hills, N. Y.
G. S. Robins & Co., 126 Chouteau Ave., St. Louis 2
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Schmitz-Schoenewald-Turner Co., 20 Vesey St., N. Y. 7
George Uhe, Inc., 76 9th Ave., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y. 14
G. A. Wharry & Co., 95 Broad St., N. Y. 4 American-British Chemical Supplies, 180 Madison Ave.,

BROKERS (Oils and Fats)

Irving R. Boody Co., 120 Wall St., N. Y.
John H. Calo Co., 19 Rector St., N. Y. 6
Simon Cytron Trading Co., 50 Broad St., N. Y.
Davidson Commission Co., 327 S. La Salle St., Chicago
John W. Hall, 327 S. La Salle St., Chicago
Otto A. C. Hagen Co., Public Ledger Bldg., Phila.
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave.,



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BROKERS (Oils and Fats) (Contd.)

Hentz & Co., 60 Beaver St., N. Y.
Chas. Hollingshead Co., Produce Exchange, N. Y.
E. G. James Co., 316 S. La Salle St., Chicago
Marwood Co., 221 N. LaSalle, Chicago
Miller & Co., 2401 Chestnut St., Philadelphia
Rayner & Stonington, Inc., 79 Wall St., N. Y.
Revere Oil & Chemical Co., 23 E. 26 St., N. Y. 10
Rivo Mfrs. & Distributors Co., 66-09 111 St., Forest
Hills, N. Y.
Roesling, Monroe & Co., 133 Front St., N. Y.
Roesenthal Bercow Co. 25 E. 26th St., N. Y.
Sterne & Son Co., Board of Trade Bldg., Chicago
Weaver & Hugi, Inc., Produce Exchange Bldg., N. Y.
Welch, Holme & Clark Co., Inc., 439 West St. N. Y.
Wilson Brokerage, Inc., Produce Exchange, N. Y.

BROOMS

Alabama Broom & Mattress Co., Huntsville, Ala.
Amsterdam Broom Co., 81-95 Brookside Ave., Amsterdam, N. Y.
Brooklyn Fibre Broom Co., 47 Dinsmore Pl., Brooklyn 8
Detroit Quality Brush Mfg. Co., 5937 Michigan Ave.,
Detroit Eagle Woodenware Co., Hamilton, O.
Flour City Brush Co., 1501—4th Ave., S. Minneapolis
Kendallville Brush & Broom Co., Kendallville, Ind.
Laitner Brush Co., 2000 Brooklyn Ave., Detroit
Modglin Co., 3225 San Fernando Rd., Los Angeles 65
Ox Fibre Brush Co., Frederick, Md.
M. J. Toohey & Co., Fall River, Mass.

BRUSHES

American Standard Mfg. Co., 2509 S. Green St., Chicago Amsterdam Broom Co., 81-95 Brookside Ave., Amsterdam, N. Y. Brooklyn Fibre Broom Co., 14 Dinsmore Pl., Bklyn. 8
Detroit Quality Brush Mfg. Co., 5937 Michigan Ave.,
Detroit Empire Brushes, Inc., Port Chester, N. Y.
Jos. O. Flatt & Co., 141 Cedar St., Reading, Pa.
Flour City Brush Co., 1501—4th Ave., S., Minneapolis
J. I. Holcomb Co., Indianapolis
Illinois Duster & Brush Co., 1944 Webster Ave., Chicago
W. E. Kautenberg Co., P. O. Box 255, Freeport, Ill.
Kendallville Brush & Broom Co., Kendallville, Ind.
Laitner Brush Co., 2000 Brooklyn Ave., Detroit
Modglin Co., 3225 San Fernando Rd., Los Angeles 65
Moran Brush Mfg. Co., Hamden, Conn.
National Brush Co., Aurora, Ill.
Ox Fibre Brush Co., Frederick, Md.
Pacific Coast Brush Co., Los Angeles
Pioneer Mfg. Co., Cleveland, O.
Silver-Chamberlin Co., Clayton, N. J.
Tate Mfg. Co., 67 Sudbury St., Boston, Mass.
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada
Zimmerman Brush Works, Inc., 900 W. Lake St., Chicago

BULK SOAPS (see Chip Soap, Laundry Soap)

CAJUPUT OIL (see Essential Oils)

CALCIUM HYPOCHLORITE

Columbia-Southern Chem. Corp., 5th Ave. & Bellefield, Pittsburgh
Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Innis, Speiden & Co., 117 Liberty St., N. Y.
Mathieson Chemical Corp., Baltimore 3
Niagara Alkali Co., 60 E. 42nd St., N. Y.
Penn. Salt Mfg. Co., Widener Bldg., Phila.
Jos. Turner & Co., Ridgefield, N. J.
Rosenthal Bercow, 25 E. 26th St., N. Y. 10



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U. S. Industrial Chems., Inc., 120 Broadway, N. Y. 5 Virginia-Carolina Chem. Corp., Richmond, Va. Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

CALCIUM STEARATE (see Stearates)

CAMPHOR OIL (see Essential Oils)

CAN FILLING MACHINERY (see Filling Machinery, Cans)

CANDELILLA WAX (see Waxes)

CAN SPOUTS AND NOZZLES

Continental Can Co., 100 E. 42 St., N. Y. 17
Crown Cork & Seal Co., Baltimore, Md.
Eastern Can Co., Keap St. & Kent Ave., Bklyn.
George D. Ellis & Son. 309 N. 3rd St., Philadelphia
Rieke Metal Products Corp., 70 Pine St., N. Y.
Seal Spout Corp., 363 Jelliff Ave., Newark 8, N. J.
(for cartons)
Standard Containers, Inc., Montclair, N. J.
Z & W Machine Prods., Inc., 5151 St. Clair Ave., Cleveland

CANS (Fibre or Paper)

American Can Co., 100 Park Ave., N. Y.
Canister Co., Phillipsburg, N. J.
Cin-Made Corp. 294 Eggleston Ave., Cincinnati
Cleveland Container Co., 6201 Barberton Ave., Cleveland
Columbia Can Co., 59-27 54th St., Maspeth 78, N. Y.
Continental Can Co., 100 E. 42nd St., N. Y.
Cross Paper Products Co., 2595 Third Ave., N. Y.
Federal Fibre Corp., 3704 10th St., L. I. C. 1
Fonda Container Co., 41 Park Row, N. Y.
Harcord Mfg. Co., 150 Bay St., Jersey City 2, N. J.
Master Package Corp., Owen, Wis.
Midwest Paper Container Co., 707 N. 3rd St., Minneapolis
National Paper Can Co., Cudahy, Wis.
Packard Container Corp., West New York, N. J.
R. C. Can Co., 121 Chambers St., St. Louis
W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago
Sealright Co., 500 Fifth Ave., N. Y.
Sutherland Paper Co., Kalamazoo, Mich.

CANS (Sifter Top)

American Can Co., 100 Park Ave., N. Y.
Anchor Hocking Glass Corp., Lancaster, Ohio
Canister Co., Phillipsburg, N. J.
Cleveland Container Co., 6201 Barberton Ave., Cleveland
Cin-Made Corp., 294 Eggleston Ave., Cincinnati
Continental Can Co., Inc., 100 E. 42nd St., N. Y.
Crown Can Co., Erie Ave. & H St., Phila.
Eastern Can Co., Keap St. & Kent Ave., Bklyn.
Harcord Mfg. Co., 150 Bay St., Jersey City 2, N. J.
National Can Co., 110 E. 42nd St., N. Y.
Packard Container Corp., 5811 Park Ave., West New
York, N. J.
R. C. Can Co., 121 Chambers St., St. Louis
W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago
Sefton Fibre Can Co., 3275 Big Bend Blvd., St. Louis
Standard Container, Inc., Bloomfield, N. J.
Sutherland Paper Co., Kalamazoo, Mich.

CANS (Tin)

American Can Co., 100 Park Ave., N. Y.
Anchor Hocking Glass Corp., Lancaster, Ohio
Central Can Co., 2415 W. 9th St., Chicago
J. L. Clark Mfg. Co., Rockford, Ill.
Columbia Can Co., 59-27 54th St., Maspeth 78, N. Y.
Continental Can Co., Inc., 100 E. 42nd St., N. Y.
Crown Can Co., Erie Ave. & H St., Philadelphia
Eastern Can Co., Wythe Ave. & Keap St., Brooklyn 11
George D. Ellis & Sons, 309 N. 3rd St., Philadelphia
Fein's Tin Can Co., Bush Terminal, Brooklyn
General Can Co., 1603 S. Canal St., Chicago

Heekin Can Co., Cincinnati
National Can Co., 110 E. 42nd St., N. Y.
W. F. Robertson Steel & Iron Co., Springfield, O.
St. Louis Can Co., 904 S. 14th St., St. Louis
Standard Container, Inc., Bloomfield, N. J.
Vulcan Tin Can Co., Bellwood, Ill.
Vulcan Steel Container Co., 3315 N. 35 Ave., Birmingham. Ala.

CAPPING MACHINERY

Alsop Engineering Corp., 100 High St., Milldale, Conn. Anchor Hocking Glass Corp., Lancaster, Ohio Consolidated Packaging Machinery Corp., 1400 West Ave., Buffalo Consolidated Prods. Co., 15-21 Park Row, N. Y. 38, (Used)
Crown Cork & Seal Co., Baltimore, Md. Ertel Engineering Corp., West Front St., Kingston, N. Y. Filpaco Industries, 2464 S. Michigan Ave., Chicago First Machy. Corp., 157 Hudson St., N. Y. (Used) Hornney & Co., 420 Lexington Ave., N. Y. (Xarl Kiefer Machine Co., 919 Martin St., Cincinnati, Ohio M. R. M. Co., 191 Berry St., Brooklyn Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago Pneumatic Scale Corp., North Quincy, Mass. Resina Automatic Mchy. Co., 572 Smith St., Brooklyn Scientific Filter Co., 59 Rose St., N. Y. 10 Triangle Package Machy. Co., 6633 W. Diversey Blvd., Chicago 51
Tite-Cap Machine Co., 57 Rose St., N. Y. 7
U. S. Bottlers Mchy. Co., 4015 N. Rockwell St., Chicago

CAPS (Molded)

Anchor Hocking Glass Corp., Lancaster, Ohio Armstrong Cork Co., Lancaster, Pa. General Plastics, Inc., N. Tonawanda, N. Y. Owens-Illinois Glass Co., Toledo, Ohio Plaskon Division, Libby-Owens-Ford Glass Co., 2112 Sylvan Ave., Toledo 6, Ohio Resinox Corp., Terre Haute, Ind. Standard Cap & Molding Co., 307 S. Eaton St., Baltimore

CAPS (Metal)

Aluminum Co. of America, Gulf Bldg., Pittsburgh Anchor Hocking Glass Corp., Lancaster, Ohio Armstrong Cork Co., Lancaster, Pa. Cin-Made Corp., 295 Eggleston Ave., Cincinnati Closure Service Co., Toledo, Ohio Continental Can Co., 100 E. 42nd St., N. Y. Crown Cork & Seal Co., Eastern Ave. & Kresson St., Baltimore George D. Ellis Sons, 309 N. 3rd St., Philadelphia National Can Co., 110 E. 42nd St., N. Y. National Seal Co., 14th Ave. & 37th St., Brooklyn Owens-Illinois Glass Co., Toledo, Ohio Phoenix Metal Cap Co., 2444 W. 16th St., Chicago

CARBOLIC ACID (see Phenol)

CARBONS for bleaching oils, glycerine, etc. (see Decolorizing Carbons)

CARBON TETRACHLORIDE

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Center, N. Y. Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati 29, Ohio J. T. Baker Chemical Co., Phillipsburg, N. J. Buffalo Solvents & Chemicals Corp., Box 73 Station B, Buffalo 7, N. Y. Carbide & Carbon Chemicals, 30 E. 42 St., N. Y. 17 Central Solvents & Chemicals Co., 2545 W. Congress St., Chicago 12, Ill. Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14

Dow Chemical Co., Midland, Mich.

Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis 22, Ind.

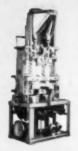
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BETTER PACKAGING



TIGHTWRAPPING MACHINE



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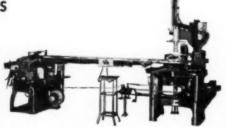
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BOX SHAPER



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Innis, Speiden & Co., 117 Liberty St., N. Y.
Missouri Solvents & Chemicals Co., 419 De Soto Ave.,
St. Louis 7, Mo.
Niagara Smelting Corp., Niagara Falls, N. Y.
Ohio Solvents & Chemicals Co., 3470 W. 140th St.,
Cleveland 11, Ohio
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Phila.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Southern Solvents & Chemicals Corp., 1352 Jefferson
Highway, New Orleans 18, La.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Texas Solvents & Chemicals Co., 8501 Market St.,
Houston 15, Texas
Virginia-Carolina Chem. Corp., Richmond, Va.
Welch, Holme & Clark Co., 439 West St., N. Y.
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,

Welch, Holme & Clark Co., 439 West St., N. Y.
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,
Detroit 11, Michigan
Westvaco Chem. Div., Food Mach. & Chem. Corp.,
405 Lexington Ave., N. Y.
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,
Milwaukee 14, Wis.
Wolverine Solvents & Chemicals Co., 1500 Century Ave.,
S.W., Grand Rapids 9, Mich.

CARBOXYMETHYCELLULOSE (CMC)

Antara Chemicals, Div. of General Dyestuff Corp., 435 Hudson St., N. Y. 14 Dow Chemical Co., Midland, Mich. E. I. du Pont de Nemours & Co., Wilmington, Del. Hercules Powder Co., 961 Market St., Wilmington, Del. Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

CARNAUBA WAX (see Waxes)

CARTON HANDLING SYSTEMS

J. L. Ferguson Co., Joliet, Ill. Hornney & Co., 420 Lexington Ave., N. Y. Island Equipment Corp., 27-01 Bridge Plaza N, LIC, Preumatic Scale Corp., Quincy, Mass. Standard-Knapp Div. of Emhart Mfg. Co., Portland, Stephans-Adamson Mfg. Co., Aurora, Ill. Weigh Right Automatic Scale Co., Joliet, Ill.

CARTON LINING MACHINES (see Lining Machinery)

CARTON SEALING MACHINERY (see Sealing Machinery)

CARTONING MACHINERY

Chisholm-Ryder Co. of Pa., Hanover, Pa. Consolidated Prods. Co., 15-21 Park Row, N. Y. 38, (Used) (Used)
J. L. Ferguson Co., Joliet, Ill.
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Hornney & Co., 420 Lexington Ave., N. Y.
Johnson Automatic Sealer Co., Battle Creek, Mich.
R. A. Jones & Co., Cincinnati, Ohio
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chieses (Used) Chicago (Used)
Pneumatic Scale Corp., North Quincy, Mass.
F. B. Redington Co., 112 S. Sangamon St., Chicago
Standard-Knapp Div. of Emhart Mfg. Co., Portland, Conn. Stokes & Smith Co., 4915 Summerdale Ave., Phila.
Triangle Packagae Machinery Co., 6633 W. Diversey
Blvd., Chicago 51
Weigh Right Automatic Scale Co., Joliet, Ill.

CARTONS (Display and Knock Down)

Alderman-Fairchild Co., Rochester, N. Y. Consolidated Paper Co., Monroe, Mich. Robert Gair Co., 155 E. 44th St., N. Y. Gardner Board & Carton Co., Middletown, Ohio Hinde & Dauch, Sandusky, Ohio

Nevins-Church Co., 250 Park Ave., N. Y.
New England Card & Paper Co., Springfield, Mass.
Owens-Illinois Glass Co., Toledo, O.
Pictorial Package Co., Aurora, Ill.
Randolph Box & Label Co., 843 W. VanBuren St., Chicago
W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago
Robertson Paper Box Co., Inc., Montville, Conn.
George Schmitt & Co., Grand & Florence Sts., Brooklyn
Sutherland Paper Co., Kalamazoo, Mich.
U. S. Printing & Lithographing Co., Cincinnati, Ohio
Universal Folding Box Co., Monroe & 13th St.,
Hoboken, N. J. Hoboken, N. J.

CASE LOADING MACHINERY

Chisholm-Ryder Co., Hanover, Penna.
J. L. Ferguson Co., Joliet, Ill.
Johnson Automatic Scale Co., Battle Creek, Mich.
R. A. Jones & Co., Cincinnati
Hornney & Co., 420 Lexington Ave., N. Y.
Karl Kiefer Mach. Co., 919 Martin St., Cincinnati
Newman Tallow & Soap Machy. Co., 1051 W. 35 St.,
Chicago (Used)
Pneumatic Scale Corp., N. Quincy, Mass.
Standard-Knapp Div. of Emhart Mfg. Co., Portland,
Conn. Stokes & Smith Co., 4915 Summerdale Ave., Phila.

CASE SEALING MACHINERY (see Sealing Machinery)

CASEIN

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. Borden Co., 350 Madison Ave., N. Y. Wm. Diehl & Co., 336 W. 42nd St., N. Y. 18 E. I. du Pont de Nemours & Co., Wilmington, Del. Enco Chem. Corp., 441 Lexington Ave., N. Y. Hercules Powder Co., 961 Market St., Wilmington, Del. Innis, Speiden & Co., 117 Liberty St., N. Y. Land-o-Lakes Creameries, Minneapolis National Casein Co., 603 W. 80th St., Chicago Welch, Holme & Clark Co., 439 West St., N. Y.

CASES (Fibre) (see Boxes)

CASES (Corrugated) (see Boxes)

CASSIA OIL (see Essential Oils)

CASTILE SOAP, BAR

Armour & Co., 1355 W. 31st St., Chicago Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Conti Products Corp., 43 Clinton Ave., Brooklyn
Davies-Young Soap Co., Daylton 1, O.
Duveen Soap Corp., 36-14 35 St., Long Island City 6,
N. Y.
Haskins Bros. & Co., Omaha
Hewitt Soap Co., Dayton, O.
Kranich Soap Co., 54 Richards St., Brooklyn
Lockwood-Brackett Co., Waltham Station, Boston
Newell Gutradt Co., 350 Fremont St., San Francisco
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Procter & Gamble Dist. Co., Cincinnati 1
Sanitary Soap Co., 104 Railroad Ave., Paterson
Schmidt Soap Products, 236 W. North Ave., Chicago
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

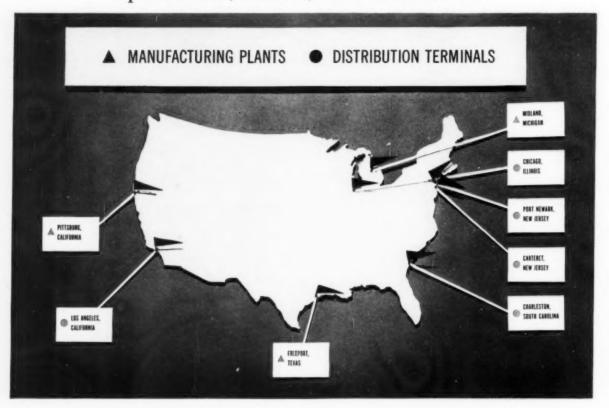
CASTILE SOAP, LIQUID

Aid Soap Mfg. Co., Rochester, Pa.
Ampion Corp., 47-02 5th St., Long Island City, N. Y.
Analab Laboratories, 285 Franklin St., Boston 10
Antiseptol Co., 5524 Northwest Highway, Chicago
Armour & Co., 1355 W. 31st St., Chicago 9
Baums Castorine Co., 200 Matthew St., Rome, N. Y.
Bilco Chemical Co., 607 DeGraw St., Bklyn.
Chemical Service Co. of Baltimore, Howard & West Sts.,
Baltimore 30 Baltimore 30 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago Clifton Chemical Co., 62 William St., N. Y.



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Davies-Young Soap Co., Dayton, O.
Eagle Soap Corp., Huntington, Ind.
Essential Chemicals Co., 2200 N. 32 St., Milwaukee 8
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good, Inc., Kensington, Philadelphia
Haag Laboratories, Inc., 140th & Seeley Ave., Blue
Island, Ill.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia
Hewitt Soap Co., Dayton, O.
Higley Chem. Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hunt Mfg. Co., Lisbon Rd., Cleveland
Hysan Prods. Co., 932 W. 38th Place, Chicago
Kranich Soap Co., 54 Richards St., Brooklyn
Midland Laboratories, 210 Jones St., Dubuque, Iowa
National Chem. Laboratories, 825 Lombard St., Phila. 47
Old Empire Mfg. Chemists, Mt. Prospect & Verona Ave.,
Newark, N. J.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
Schmidt Soap Products, 236 W. North Ave., Chicago
John T. Stanley Co., 642 W. 30th St., N. Y.
Tech. Soap Mfg. Co., 7310 S. Chicago Ave., Chicago
Trio Chem. Wks., 341 Scholes St., Brooklyn
J. A. Tumbler Labs., 423 Hanover St., Baltimore
Science Industries, 609-15 Geyer Ave., St. Louis
U. S. Sanitary Spec. Corp., 1001 S. California Blvd.,
Chicago 12
Uncle Sam Chem. Co., 575 W. 131st St., N. Y.
Woodlets, Inc., Portland, Pa.
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(see also Dealers)

Archer-Daniels-Midland Co., Minneapolis
Baker Castor Oil Co., 120 Broadway, N. Y.
Balfour, Guthrie & Co., 67 Wall St., N. Y.
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Falk & Co., Pittsburgh 30
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Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave.,
N. Y. 17
Spencer Kellogg & Sons, Buffalo, N. Y.
Pacific Vegetable Oil Corp., 62 Townsend St.,
San Francisco
J. H. Redding, Inc., 177 Battery Place, N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Swift & Co., Chicago
Arthur C. Trask Co., 4103 S. La Salle St., Chicago
Welch, Holme & Clark Co., 439 West St., N. Y.
G. A. Wharry & Co., 95 Broad St., N. Y. 4

CASTOR OIL FATTY ACIDS

Baker Castor Oil Co., 120 Broadway, N. Y. 5 W. C. Hardesty Co., 41 E. 42nd St., N. Y. Spencer Kellogg & Sons, Buffalo, N. Y. Swift & Co., Chicago Jos. Turner & Co., Ridgefield, N. J. Welch, Holme & Clark Co., 439 West St., N. Y. Woburn Chemical Corp., Harrison, N. J.

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(see also Sheep Dips)

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Baums Castorine Co., 200 Mathew St., Rome, N. Y. Bileo Chemical Co., 607 DeGraw St., Bklyn.
California Spray-Chemical Corp., Richmond, Calif.
Carbide & Carbon Chemicals, 30 E. 42 St., N. Y. 17
Cary Mfg. Co., 4949 Mansfield St., San Diego 16, Calif.
Chemical Compounding Corp., 262 Huron St., Brooklyn
Chem. Service Co. of Balto, Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Chipman Chem. Co., Bound Brook, N. J.

Clifton Chemical Co., 62 William St., N. Y.
Corn King Co., Cedar Rapids, Ia.
Crystal Soap & Chem. Co., 6300 State Rd., Phila. 35
Davies-Young Soap Co., Dayton, O.
E. I. du Pont de Nemours & Co., Wilmington, Dela.
Eagle Soap Corp., Huntington, Ind.
Fairfield Laboratories, 417 Cleveland Ave., Plainfield, Fuld Bros., 702 S. Wolfe St., Baltimore Guardian Chem. Corp., 10-15 43 Ave., Long Island City, Full Bros., 702 S. Wolfe St., Baltimore
Guardian Chem. Corp., 10-15 43 Ave., Long Island City,
N. Y.
Geigy Co., 89 Barclay St., N. Y.
General Chem. Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
James Good, Inc., 2116 E. Susquehanna Ave., Phila.
Goulard & Olena, Skillman, N. J.
Haag Laboratories, Inc., Blue Island, Ill.
Heckathorn & Co., Richmond, Calif.
Higley Chem. Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
James Huggins & Son, 239 Medford St., Malden, Mass.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Hunt Mfg. Co., Lisbon Rd., Cleveland
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Ketoid Chem. Co., 339 S. Van Deventer, St. Louis
Koppers Co., Koppers Bldg., Pittsburgh
Lakeland Labs., 625 15th Ave., South, Minneapolis
Lorenz Chem. Co., 135 N. 32nd Ave., Omaha
Mathieson Chemical Corp., Mathieson Bldg., Balto.
McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis, Minn.
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Nopco Chemical Co., Harrison, N. J.
Peck's Prod. Co., 610 E. Clarence Ave., St. Louis
Penna. Salt Mfg. Co., Widener Bldg., Phila.
Private Brands, Inc., 300 S. 3 St., Kansas City, Kan.
J. W. Quinn Drug Co., Greenwood, Miss.
Rex Research Corp., Toledo
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago
Shell Chemical Corp. 50 W. 50th St., N. Y. 19
Sinclair Ref. Co., East Chicago, Ind.
Standard Oil Co. (Calif.), 225 Bush St., San Francisco
Standard Oil Co., (Calif.), 225 Bush St., San Francisco
Standard Oil Co., (Ind.) 910 S. Mich. Ave., Chicago
Standard Oil Co., (Ind.) 910 S. Mich. Ave., Chicago
Standard Oil Co., (Ohio), Midland Bldg., Cleveland
Stauffer Chemical Co., 420 Lexington Ave., N. Y.
Theobald Industries, P. O. Box 72, Harrison, N. J.
Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,
Kansas City, Mo.
Trio Chem. Wks., 341 Scholes St., Brooklyn 6 Kansas City, Mo.
Trio Chem. Wks., 341 Scholes St., Brooklyn 6
Uncle Sam Chem. Co., 575 W. 131st St., N. Y.
U. S. Sanitary Spec. Corp., 1001 S. California Blvd.,
Chicago 12 U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12

James Varley & Sons, 1200 Switzer Ave., St. Louis

Velsicol Corp., 330 E. Grand Ave., Chicago

Victory Chem. Co., 148 Fairmount Ave., Phila.

Warren Chemical Prods. Co., 1138 Main Ave. SW, Warren, O. Robert C. White Co., Chestnut Hill, Phila. Whitmire Res. Labs., 339 S. Vandeventer, St. Louis

CAUSTIC POTASH (see Potash, Caustic)

CATTLE SPRAY BASE (see Petroleum Bases)

CAUSTIC POTASH (see Potash, Caustic)

CAUSTIC SODA

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. Belle Alkali Co., Belle, W. Va. Brown Company, Portland, Me. Champion Fibre Co., Canton, N. C. Columbia Southern Chem. Corp., 5th Ave. & Bellefield, Pittsburgh
Diamond Alkali Co., Cleveland 14
Dow Chemical Co., Midland, Mich.
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.
Julius Hyman & Co., Div., Shell Chemical Corp., Denver, Colo.
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.

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COLUMBIA-SOUTHERN CHEMICALS

FOR SOAP MAKING · SPECIAL MIXTURES · REPACKING

Caustic Soda

Liquid	50%	and 73%	NaOH
Solid	76%	Na ₂ O	
**** *			

Flake........76% Na₂O, Fine and Medium

Columbia-Southern Caustic Soda is especially desirable for the manufacture of soap because of its freedom from impurities and metallic contamination. Liquid grades are shipped in special tank cars which first made practical the shipment of 73% Caustic Liquor in its purest form. Insulation effectively prevents crystallization and the patented lining prevents metallic contamination in transit.

Other grades test 98-100% Sodium Hydroxide (NaOH), equivalent to 76% Na₂O. Flake Caustic Soda is prepared in two grades of fine and medium sized flakes, free of dust. The finer grade is especially suitable for repacking for household use.

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Solid....Standard grade. Packed in 700 lb. drums.

Flake.....Standard grade. Packed in 400 lb. drums.

Liquid....50% concentration. Shipped in 8,000 and 10,000 gallon tank cars

Columbia-Southern Caustic Potash is another product of high quality and purity that soap-makers find excellent for use in liquid soap and soft soap manufacture.

Soda Ash-Light and Dense

The original Columbia-Southern chemical. Over a half-century's experience in the manufacture of this essential chemical for soap makers has enabled Columbia-Southern to develop techniques and controls that assure uniform density and regularity of physical form and purity.

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Pacific Crystals are a true sodium sesqui-carbonate—unmodified by mechanical mixing—of a tabular, crystalline structure and fine particle size. They are non-irritating, free-flowing, non-caking. They mix readily with dry materials and dissolve quickly in water.

The gentle, safe action of Pacific

Crystals has made it widely accepted by repackers and compounders for many uses such as soap extenders, water softeners, laundry-textile-dairy-tanner's sodas, dishwashing compounds, silk degummers, general cleaning compounds. Pacific Crystals can be used directly in the crutcher in the manufacture of soap builders. Packed in 100 lb. paper bags.

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Columbia-Southern Para-Dichlorobenzene sublimes readily leaving no residue, is soluble in most organic solvents but is insoluble in water. Available in seven mesh sizes to meet the needs of the soap industry in the manufacture of sanitary specialties and deodorants. Shipped in fiber drums, 200, 100, 50 and 25 lbs. net.

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Mixtures of Sodium Carbonate and Sodium Bicarbonate. Especially useful in cleansing operations requiring a mild alkaline detergent-aid. Manufactured in three grades—No. 100, No. 200 and No. 300—with different degrees of alkalinity.

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Michigan Electrochemical Co., Menominee, Mich.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis 4
Niagara Alkali Co., 60 E. 42nd St., N. Y.
Niagara Smelting Corp., Niagara Falls, N. Y.
Chas. Page & Co., 50 E. 42nd St., N. Y. 17
Pennsylvania Salt Mfg. Co., Widener Bldg., Phila.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Virginia-Carolina Chem. Corp., Richmond, Va.
Welch, Holme & Clark Co., 439 West St., N. Y. 14
Westvaco Chem. Div., Food Mach. & Chem. Corp., 405
Lexington Ave., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.
Wyandotte Chemical Corp., Michigan Alkali Div.,
Wyandotte, Mich.

CEDAR LEAF OIL (see Essential Oils)

CEDARWOOD OIL (see Essential Oils)

CERESIN WAX (see Waxes)

CHALK (Calcium Carbonate)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. H. J. Baker & Bro., 271 Madison Ave., N. Y. Binney & Smith Co., 41 E. 42nd St., N. Y. Charles B. Chrystal Co., 53 Park Pl., N. Y. Fezandie & Sperrle, 205 Fulton St., N. Y. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6
Charles Hardy, Inc., 420 Lexington Ave., N. Y. Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y. Innis, Speiden & Co., 117 Liberty St., N. Y.

Merck & Co., Rahway, N. J.

James H. Rhodes & Co., 157 W. Hubbard St., Chicago Rosenthal Bercow, 25 E. 26 St., N. Y. 10

L. A. Salomon & Bro., 216 Pearl St., N. Y. Tamms Industries, Inc., 228 N. La Salle St., Chicago Charles A. Wagner Co., 813 Callowhill St., Phila.

Whittaker, Clark & Daniels, Inc., 260 W. Broadway, New York

Witco Chemical Co., 260 Madison Ave., N. Y.

Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

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Amer. Sponge & Chamois Co., 47 Ann St., N. Y. Atlas Sponge Co., 9 White St., N. Y. Great Eastern Sponge & Chamois Co., 833 N. Patt. Pk. Ave., Baltimore
Jos. Neihaus Co., 341 W. 4th St., Cincinnati
James H. Rhodes & Co., 157 W. Hubbard St., Chicago
Schroeder & Tremayne, Inc., 1711 Delmar Blvd., St.

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Houchin Machy. Co., Hawthorne, N. J.
Huber Machine Co., 259—46th St., Brooklyn
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.
Lukens Steel Co., Coatesville, Pa.
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
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Proctor & Schwartz. 7th St. & Tabor Rd., Philadelphia
Chas. Ross & Son Co., 148 Classon Ave., Brooklyn 5
C. G. Sargent's Sons Corp., Graniteville, Mass.
Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago (Used)

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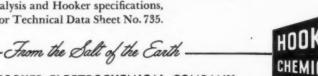
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Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8
Haskins Bros. & Co., Omaha
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R. M. Hollingshead Corp., Camden, N. J.
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National Milling & Chem. Co., 4601 Nixon St., Phila. 27
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Bilco Chemical Co., 607 DeGraw St., Bklyn.

Boston Chem. Industries, 64 E. Brookline St., Boston 18

Brilco Laboratories, 1553 63rd St., Brooklyn 19

California Spray-Chemical Corp., Richmond, Calif.

Cornell Chem. & Equipment Co., Dillon Hgts. Ave.,

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Private Brands, Inc., 300 S. 3 St., Kansas City, Kan.
J. W. Quinn Drug Co., Greenwood, Miss.
Stauffer Chemical Co., 420 Lexington Ave., N. Y.
Tech. Soap Mfg. Co., S. Chicago Ave. & 73 St., Chicago
Tesco Chemicals, Inc., Atlanta 5, Ga.
Thompson-Hayward Chem. Co., Kansas City, Mo.
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Innis, Speiden & Co., 117 Liberty St., N. Y.
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Pennsylvania Salt Mfg. Co., Widener Bldg., Phila.
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Virginia-Carolina Chem. Corp., Richmond 5, Va.
Westvaco Chem. Div., Food Mach. & Chem. Corp., 405
Lexington Ave., N. Y.
Wyandotte Chemicals Corp., Michigan Alkali Div.,
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Mathieson Chemical Corp., Baltimore 3

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Fritzsche Bros., 76 Ninth Ave., N. Y. 11

R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.

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Pylam Products Co., 799 Greenwich St., N. Y.

Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10

Sandoz Chem. Works, Inc., 61 Van Dam St., N. Y.

Schimmel & Co., 601 W. 26th St., N. Y.

Welch, Holme & Clark Co., 439 West St., N. Y. 14

CITRAL (see Aromatic Chemicals)

CITRONELLAL (see Aromatic Chemicals)

CITRONELLA OIL (see Essential Oils)

CITRONELLOL (see Aromatic Chemicals)

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Peerless Clay & Mineral Co., Pueblo, Colo.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
L. A. Salomon & Bro., 216 Pearl St., N. Y.
F. E. Schundler & Co., Joliet, Ill.
Sinclair Refining Co., East Chicago, Ind.
Southeastern Clay Co., Aiken, S. C.
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago
Tamms Industries, Inc., 228 N. LaSalle St., Chicago
United Clay Mines Corp., 101 Oakland St., Trenton, N. J.
R. T. Vanderbilt Co., 230 Park Ave., N. Y.
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.
Witco Chemical Co., 260 Madison Ave., N. Y.
Wyodak Chem. Co., 4600 E. 71 St., Cleveland

CLEANERS, LIQUID (see also Floor Scrub Soaps, also Cleaning Fluids)

Alrose Chem. Co., Box 1294, Providence, R. I.
American Alcolac Corp., 3440 Fairfield Rd., Baltimore 26
American Oil & Disinfectant Co., 80 8th Ave., N. Y. 11
American Soap & Washoline Co., Cohoes, N. Y.
Ampion Corp., 47-02 5th St., Long Island City, N. Y.
A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18
Analab Labs., 285 Franklin St., Boston 10
Antiseptol Co., 5524 Northwest Highway, Chicago
Armour & Co., 1355 W. 31st, Chicago
Baird & McGuire, Inc., Holbrook, Mass.
Banner Chem. Prods. Co., 9 Calumet St., Newark, N. J.
Baums Castorine Co., 200 Mathew St., Rome, N. Y.
Bilco Chem. Co., 607 DeGraw St., Bklyn.
Boston Chemical Industries, 64 E. Brookline St., Boston
Brilco Laboratories, 1553 63rd St., Brooklyn 19
Bronson Supply Co., 3120 State St., Erie, Pa.
Buckingham Wax Co., 51-03 Van Dam St., L. I. City,
N. Y. Bronson Supply Co., 3120 State St., Erie, Pa.
Buckingham Wax Co., 51-03 Van Dam St., L. I. City,
N. Y.
Candy & Co., 2515 W. 35th St., Chicago 32
Carlstadt Chem. Co., Carlstadt, N. J.
Cenol Co., 4250 N. Pulaski Ave., Chicago
Chemical Compounding Corp., 262 Huron St., Brooklyn
Chemical Service Co., Baltimore 30, Md.
Chicago Sanitary Prods. Co., 3100 S. Throop St. Chicago
Churchill Mfg. Co., Galesburg, Ill.
Clarkson Laboratories, 919 N. 9th St., Phila.
Clifton Chemical Co., 62 William St., N. Y.
C. M. C. Laboratories Co., 15 Vandewater St., N. Y. 38
Cole Laboratories, 22-19 37th Ave., L. I. Clty, N. Y.
Continental Car-Na-Var Corp., Brazil, Ind.
Copeland Laboratories, 774 College St., Toronto, Can.
Cowles Chem. Co., 7016 Euclid Ave., Cleveland 3
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia
Curran Corp., Lawrence, Mass.
Davies-Young Soap Co., Dayton, Ohio
Dow Chemical Co., Midland, Mich.
Diversey Corp., 53 W. Jackson Blvd., Chicago
E. I. du Pont de Nemours & Co., Wilmington, Del.
Eagle Soap Corp., Huntington, Ind.
Emulsol Corp., 59 E. Madison St., Chicago
Essential Chem. Co., 2200 N. 32nd St., Milwaukee 8
Fine Organics, Inc., 211 E. 19 St., N. Y. 3
Finnell System, Inc., Elkhart, Ind.
Franklin Research Co., 5134 Lancaster Ave., Phila., Pa.
Fuld Bros., 702 So. Wolfe St., Baltimore
Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City
General Liquids Corp., 5140 Reistertown Rd., Balto.
James Good, Inc., 2116 E. Susquehanna Ave., Phila.
Harley Soap Co., Pierce & Orthodox Sts., Phila.
Harley Soap Co., Pierce & Orthodox Sts., Phila. III.

Harley Soap Co., Pierce & Orthodox Sts., Phila.

Hercules Chem. Co., 332 Canal St., N. Y.

Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.

James Huggins & Son, Malden, Mass.

Hygiene Products, 169 St. Cyr, Montreal, Can.

Hysan Prods. Co., 932 W. 38th Place, Chicago

Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.

Knoxall Corp., 1005 E. Sumner Ave., Indianapolis, Ind.

H. Krevit & Co., 73 Welton St., New Haven, Conn.

Los Angeles Soap Co., 617 E. 1st St., Los Angeles

M. & H. Laboratories, 2703 Archer Ave., Chicago

Magnus Chemical Co., 83 South Ave., Garwood, N. J.

Masury Young Co., 76 Roland St., Boston 29
M. Michel & Co., 90 Broad St., N. Y.
Midland Labs., Dubuque, Iowa
Miranol Chem. Co., 16 Melville Pl., Irvington, N. J.
Murro Chemical Co., Portsmouth, Va.
Mutual Chem. & Supply Co., 257 W. Gay St., Columbus,
Ohio
New Jersey Chem. Co., 56 Park Ave., Lynhurst, N. J.
Ninol Laboratories, 1719 S. Clinton St., Chicago 16
Nopco Chemical Co., Harrison, N. J.
Oil-Kraft, Inc., 3330 Beekman St., Cincinnati
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Penna. Salt Mfg. Co., Widener Bldg., Phila.
Philadelphia Quartz Co., Public Ledger Bldg., Phila.
Philadelphia Quartz Co., Public Ledger Bldg., Phila.
Puritan Chem. Co., Atlanta, Ga.
Quaker Chem. Prods. Co., Conshohocken, Pa.
Refined Prods. Corp., Lyndhurst, N. J.
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago
Rochester Sanitary Prods. Co., 874 Seward St.,
Rochester, N. Y.
Robert Rowe Co., 1977 Grand Trunk St., Montreal, Can.
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Science Industries, 60 Geyer Ave., St. Louis
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Slick-Shine Co., 207 Astor St., Newark, N. J.
Solshine Mfg. Co., 423 Second St., Fall River, Mass.
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John T. Stanley Co., 642 W. 30th St., N. Y.
John C. Stalfort & Sons, 319 W. Pratt St., Baltimore
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Tech. Soap Co., 7310 S. Chicago Ave., Chicago
Theobald Industries, P. O. Box 72, Harrison, N. J.
Tesco Chemicals, Inc., Atlanta 5, Ga.
Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,
Kansas City, Mo.
Trio Chem. Wks., 341 Scholes St., Bklyn.
Twi-Laq Chem. Co., 25 N. Portland Ave., Bklyn.
Ultra Chem. Wks., 341 Scholes St., Bklyn.
Twi-Laq Chem. Co., 25 N. Portland Ave., Bklyn.
Ultra Chem. Wks., 341 Scholes St., S. Louis 10
Welch, Holme & Clark Co., 439 West St., N. Y.
Wilco Co., 4425 Bandinni Blvd., Los Angeles
G. H. Wood & Co.,

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Alrose Chem. Co., Box 1294, Providence, R. I.
American Alcolac Corp., 3440 Fairfield Rd., Baltimore 26.
American Soap & Washoline Co., Cohoes, N. Y.
Ampion Corp., 47-02 5th St., Long Island City, N. Y.
A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18
Analab Laboratories, 285 Franklin St., Boston 10
Antara Chemicals, Div. General Dyestuff Corp., 435
Hudson St., N. Y.
Armour & Co., 1355 W. 31st St., Chicago
B. T. Babbitt, Inc., 386—4th Ave., N. Y. 16
Baird & McGuire, Inc., Holbrook, Mass.
Baums Castorine Co., 200 Mathew St., Rome, N. Y.
Banner Chem. Prods. Co., 9 Calumet St., Newark, N. J.
Beach Soap Co., Lawrence, Mass.
Bileo Chemical Co., 607 DeGraw St., Bklyn.
Blockson Chemical Co., Joliet, Ill.
Bonewitz Chemicals, Inc., Burlington, Ia.
Boston Chem. Industries, 64 E. Brookline St., Boston 18
Brilco Laboratories, 1553 62rd St., Brooklyn, N. Y.
Britex Corp., 17 Lewis Wharf, Boston 10
Bronson Supply Co., 3120 State St., Erie, Pa.
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Chem. Service Co. of Balto., Howard & West Sts., Balto.
Clarkson Laboratories, 919 N. 9th St., Phila. 23



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Continental Car-Na-Var Corp., Brazil, Ind.
Copeland Laboratories, 774 College St., Toronto, Can.
Cowles Chemical Co., 7016 Euclid Ave., Cleveland, Ohio Crystal Labs., Inc., 21 W. Park Way, N. E. Pittsburgh Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia Cudahy Packing Co., 221 N. LaSalle St., Chicago Davies-Young Soap Co., Dayton, O. Diversey Corp., 53 W. Jackson Blvd., Chicago E. F. Drew & Co., 15 E. 26 St., N. Y. 10
Eagle Soap Corp., Huntington, Ind.
East Coast Soap Corp., 89 Coffey St., Bklyn. 31
Emeryville Chem. Co., 405 Montgomery St., San Francisco Francisco Emulsol Corp., 59 E. Madison St., Chicago Essential Chem. Co., 2200 N. 32nd St., Milwaukee 8 Filtrol Corp., 727 W. 7th St., Los Angeles Finnell System, Inc., Elkhart, Ind. Fuld Bros., 702 S. Wolfe St., Baltimore Gaskill Products, 9 S. Letitia St., Phila. Guardian Chem. Corp., 10-15 43 Ave., Long Island City, Guardian Chem. Corp., 10-15 43 Ave., Long Island City, N. Y.
Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City, Mo.
James Good, Inc., 2116 E. Susquehanna Ave., Phila.
Goulard & Olena, Inc., Skillman, N. J.
Hercules Chem. Co., 322 Canal St., New York
Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hunnewell Soap Co., 114 W. 2 St., Cincinnati
Hunt Mfg. Co., Lisbon Rd., Cleveland
Hygiene Products, 169 St. Cyr, Montreal, Can.
Hysan Prods. Co., 932 W. 38th Place, Chicago
J. Chemical Works Co., 437 Eleventh Ave., N. Y.
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Klix Chem. Co., 2460 Third St., San Francisco
H. Kohnstamm & Co., 91 Park Pl., N. Y.
H. Krevit & Co., 73 Welton St., New Haven, Conn.
Los Angeles Soap Co., Los Angeles, Calif.
M. & H. Laboratories, 2703 Archer Ave., Chicago
M. Michel & Co., 90 Broad St., N. Y. M. Michel & Co., 90 Broad St., N. Y.
Midland Labs., Dubuque, Iowa
Mutual Chem. & Supply Co., 257 W. Gay St., Columbus, Ohio
Napthole, Inc., 15 E. 26th St., New York
Nat'l Milling & Chemical Co., 4601 Nixon St., Phila. 27
Nopco Chemical Co., Harrison, N. J.
National Soap Co., 357 South 25th St., Tacoma, Wash.
Newell Gutradt Co., 350 Fremont St., San Francisco
North Coast Soap & Chem. Wks., Seattle, Wash.
Pacific Chem. Co., 1421 N. Main St., Los Angeles
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St.
Louis 10 Louis 10 Louis 10
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.
Peck's Prod. Co., 610 E. Clarence Ave., St. Louis
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Philadelphia Quartz Co., Public Ledger Bldg.,
Independence Sq., Phila. 6
Phipps Products Co., 30 Huntington Ave., Boston
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Puriter Chem. Co. Atlanta Co. Puritan Chem. Co., Atlanta, Ga. Quaker Chem. Prods. Co., Conshohocken, Pa. Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind. Theo. B. Robertson Prods. Co., 700 W. Division St., Chicago Rulon Laboratories, Bryant Bldg., Kansas City Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J. Savin Products Co., 1221 Dorchester Ave., Boston 25 Science Industries, 609-15 Geyer Ave., St. Louis Skotch Products Co., 2710 Detroit Ave., Cleveland Slick-Shine Co., 207 Astor St., Newark, N. J. Solshine Mfg. Co., 44 Brookline St., Boston Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y. S. & S. Soap Co., 815 E. 135 St., N. Y. 54

John T. Stanley Co., 642 W. 30th St., N. Y.
Stevens Soap Corp., 200 Sullivan St., Brooklyn
Sugar Beet Prods. Co., Saginaw, Mich.
Swift & Co., Chicago 9
Tech. Soap Mfg. Co., S. Chicago Ave. & 73 St., Chicago
Tennessee Soap Co., 1702 N. Thomas Ave., Memphis 1,
Tenn.
Tesco Chemicals, Inc., Atlanta 5, Ga.
Tex-ite Prods. Co., 213-17 Havemeyer St., Bklyn. 11
Theobald Industries, P. O. Box 72, Harrison, N. J.
Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,
Kansas City, Mo.
Trio Chem. Wks., 341 Scholes St., Bklyn.
Ultra Chem. Wks., 341 Scholes St., Paterson, N. J.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
United Cleanser Mfg. Co., Cambridge, Mass.
U. S. Sanitary Spec. Corp., 1001 S. California Blvd.,
Chieago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis
Virginia-Carolina Chem. Corp., Richmond 5, Va.

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James Varley & Sons, 1200 Switzer Ave., St. Louis Virginia-Carolina Chem. Corp., Richmond 5, Va. Warren Soap Mfg. Co., 51 Waverly St. Cambridge, Mass. Welch, Holme & Clark Co., 439 West St., N. Y. G. H. Wood & Co., Toronto, Canada Woodlets, Inc., Portland, Pa. Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

York Chemical Co., 23 Dean St. Bklyn. Yosemite Chem. Co., 1040 Mariposa St., San Francisco Zeen Chemical Co., 2000 Elm St., Cleveland 13

CLEANING FLUIDS (Spotting Fluids)

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Ampion Corp., 4-88—47th Ave., Long Island City, N. Y.
A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18
Analab Labs., 285 Franklin St., Boston 10
Armour & Co., 1355 W. 31st St., Chicago
Atlantic Refining Co., 260 South Broad St., Phila.
Baums Castorine Co., 200 Mathew St., Rome, N. Y.
Bilco Chemical Co., 607 DeGraw St., Bklyn.
Bonewitz Chemicals, Inc., Burlington, Ia.
Boston Chem. Industries, 64 E. Brookline St., Boston 18
Brilco Laboratories, 1553 63rd St., Brooklyn 19
Buckingham Wax Co., 51-03 Van Dam St., LIC, N. Y.
Cadet Laboratories, 10 Clarence St., Worcester 5, Mass.
Chem. Service Co. of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Clifton Chem. Co., 62 William St., N. Y.
Curran Corp., Lawrence, Mass.
Davies-Young Soap Co., Dayton, O.
Eagle Soap Corp., Huntington, Ind.
Elkay Products Corp., 323 W. 16th St., N. Y.
Emulsol Corp., 59 E. Madison St., Chicago
Fine Organics, Inc., 211 E. 19 St., N. Y. 3
Fuld Bros., 702 S. Wolfe St., Baltimore
Higley Chem. Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
James Huggins & Son, Malden, Mass.
Hysan Prods. Co., 932 W. 38th Place, Chicago
H. Krevit & Co., 73 Welton St., New Haven, Conn.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Pennsylvania Refining Co., Butler, Pa.
Science Industries, 609-15 Geyer Ave., St. Louis
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
Slick-Shine Co., 207 Astor St., Newark, N. J.
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Standard Oil Co., (Calif), 225 Bush St., San Francisco
Standard Oil Co., (Calif), 225 Bush St., San Francisco
Standard Oil Co., (Calif), 225 Bush St., San Francisco
Chemicals, Inc., Atlanta 5, Ga.
Trio Chem. Wks., 24 Hood St., Paterson, N. J.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
U. S. Sanitary Spec. Corp., 1001 S. California Blvd.,
Chicago 12
Woodlets, Inc., Portland, Pa.
G. H. Wood & Co., Toronto, Canada
Zeen Chemical Co., 2000 Elm St., Cleveland 13

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CMC (see Carboxymethylcellulose)

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Wm. Cooper & Nephews, 1909 Clifton Ave., Chicago
James Huggins & Son, Malden, Mass.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Koppers Co., Koppers Bldg., Pittsburgh, Pa.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
Neville Co., Pittsburgh 25
Chas. Page & Co., 50 E. 42nd St., N. Y. 17
Penna. Industrial Chem. Corp., Clairton, Pa.
Riches-Nelson, Inc., 342 Madison Ave., N. Y.
Reilly Tar & Chemical Co., Merchant Bank Bldg., Indianapolis

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Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
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Best Foods, Inc., 88 Lexington Ave., N. Y.
Capitol City Products Co., P. O. Box 569, Columbus, O. T. G. Cooper & Co., Cedar & Venango St., Phila. 34
E. F. Drew & Co., Wecoline Div., Boonton, N. J.
Durkee Famous Foods, Inc., 2670 Elson Ave., Chicago Eastern Industries, Inc., Ridgefield, N. J.
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Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y. 17
Spencer Kellogg & Sons. Buffalo. N. Y. Archer-Daniels-Midland Co., Minneapolis 2

N. Y. 17 Spencer Kellogg & Sons, Buffalo, N. Y. Pacific Veg. Oil Corp., 62 Townsend St., San Fra J. H. Redding Co., 17 Battery Pl., N. Y. Rosenthal Bercow Co., 25 E. 26th St., N. Y. Arthur C. Trask Co., 4103 La Salle St., Chicago 9 Welch, Holme & Clark Co., 439 West St., N. Y. San Francisco

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Emery Industries, Carew Tower, Cincinnati 2
General Mills, Chemical Div., 400 2nd Ave., Minneapolis I
Griffin Chem. Co., 1000 16th St., San Francisco
A. Gross & Co., 295 Madison Ave., N. Y. 17
W. C. Hardesty Co., 41 E. 42 St., N. Y.
Spencer Kellogg & Sons, Buffalo, N. Y.
Arthur C. Trask Co., 4103 La Salle St., Chicago 9
Neville Co., Pittsburgh, Pa.
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G. M. T. Colloid Mill Corp., 30 Church St., N. Y. 7
Manton-Gaulin Mfg. Co., 44 Garden St., Everett, Mass.
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,
Chicago (Used)
Pfaudler Co., Rochester, N. Y.
Premier Mill Corp., 61 Gates Ave., Geneva, N. Y.
Milton F. Robie, 30 Pittsburgh St., Boston
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Troy Engine & Machine Co., Troy, Penna.
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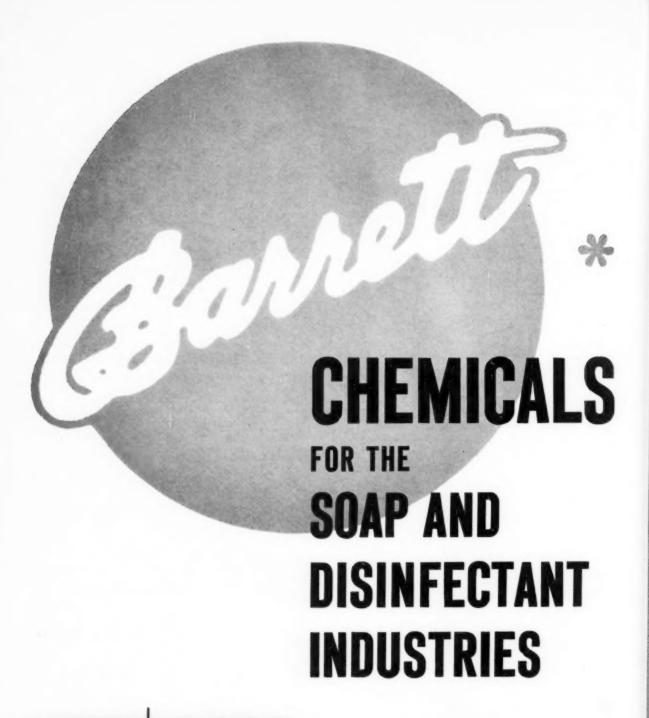
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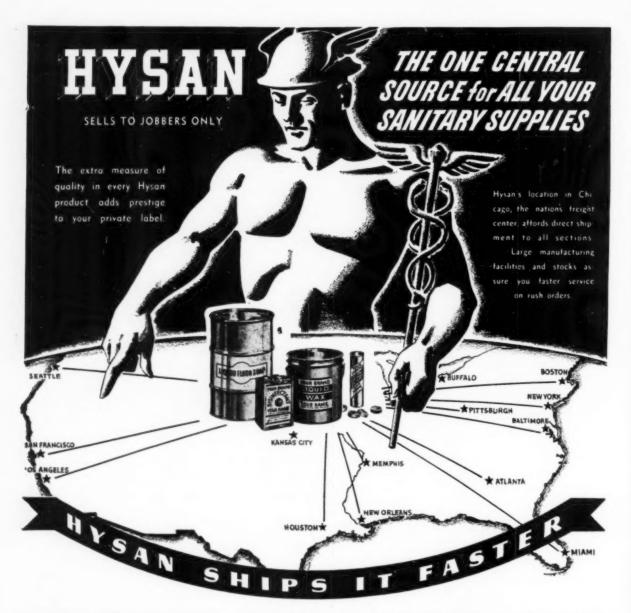
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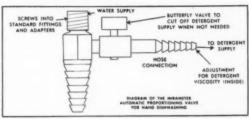
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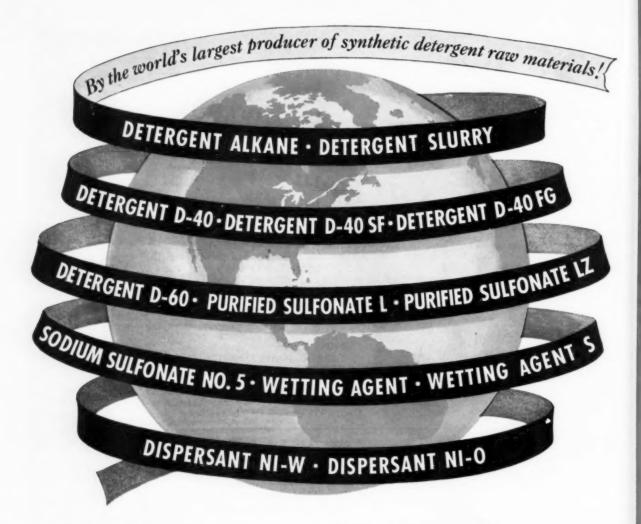
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Westvaco Chem. Div., Food Machy. & Chem. Corp.,
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Sugar Beet Prod. Co., Saginaw, Mich.
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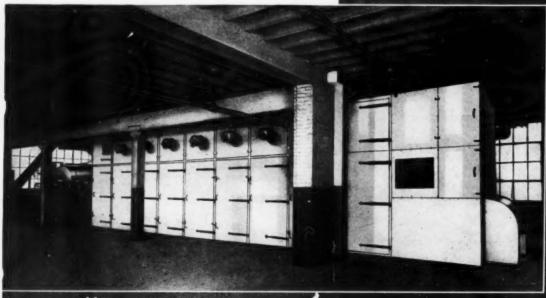
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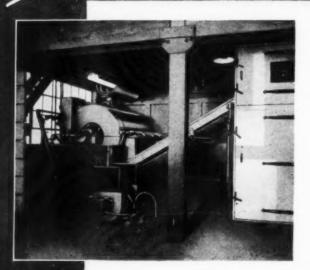
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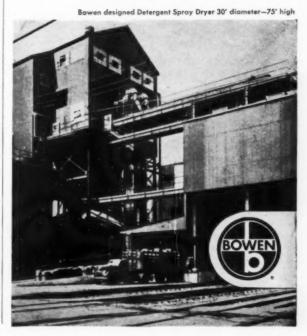
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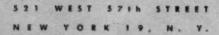
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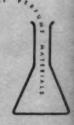
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C-16 (Methyl Phenyl Ethyl Glycidate)

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Cedrenyl Acetate—Lively, balsamic, sweet and lasting.

Cedrol

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Citronellol Coeur

Citronellyl Acetate

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Civetex

Dimethyl Benzyl Carbinol— Flowery, valuable in floral bouquets, especially lilac.

Dimethyl Benzyl Carbinyl
Acetate—Rich, Roseotto note,
very floral, powerful and
sweet in soap.

Dimethyl Octanol

Dimethyl Octanyl Acetate

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Elvinol—Suggests Linalool and Dimethyl Benzyl Carbinol. Sweet floral odor.

Elvinyl Acetate—Bergamot-like. More powerful and lasting. Sweet and refreshing.

Ethyl Phenyl Acetate

Eugenol U.S.P. Eugenol 95% **Eugenyl Phenyl Acetate—**

Fructone—Remarkably powerful fruit character for soap.

Galbanum Coeur

Gelsone—Refreshing and long lasting Jasmine note for soaps.

Geralex

Geraniol Absolute

Geraniol C.D.

Geraniol Coeur

Geranoxide—Rosy, good in soap.

Geranyl Acetate Coeur

Geranyl Butyrate

Geranyl Propionate

Girella—Inexpensive fresh spicy character suitable for use directly in soap products.

Hyacinth Body—Very powerful nasturtium-hyacinth note.

Hydratropic Acetate

Hydratropic Alcohol—Very flowery and lasting in soap.

Hydratropic Aldehyde

Hydratropic Aldehyde Dimethyl Acetal

Hydroxycitronellal

Ionone Extra C-1

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Ionone Alpha Methyl

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Ionone Methyl C-60

Ionone Methyl Gamma C-60

Irene Methyl Gamma

Iso Butyl Phenyl Acetate

Iso Eugenol

Iso Jasmone—Very powerful jasmine body—very lasting in soap.

Iso Jasmone B-Technical grade

Jessemal—Rich Jasmine note, excellent in soap.

Labdanum Resin Absolute

Lavender Ketone—Yields a high lavendacious note. Particularly suited for use in white soaps. **Linalool B Extra**

Linalool Coeur

Linalyl Acetate 90-92%

Methyl Benzoate

Methyl Cinnamate

Methyl Diphenyl Ether-A

Rosy, Leafy odor. Lasts well in soap.

Myrrh Coeur (Resin Absolute)

Nerol

Oak Moss Absolute

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Para Cresyl Phenyl Acetate

Patchone—Woody, Patchouli note, exceptionally suited for soap work.

Petitgrain Absolute

Phenyl Acetaldehyde

Dimethyl Acetal

Phenyl Ethyl Acetate

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Phenyl Ethyl Benzoate

Phenyl Ethyl Cinnamate

Phenyl Ethyl Propionate

Phenyl Propyl Alcohol

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Armour Neo-Fat fatty acids check list

Armour's patented fractional distillation process assures you of coconut oil fatty acids with purity of 92% or above! Our tall oil fractions and stripped coco also exceed the usual standards for purity. Check over the list below and compare the specifications with your requirements. Then write or call Armour for current price quotations. You'll find it pays to specify the purity, dependability and service that Armour offers.

DO YOU WANT:

Caprylic acid

Neo-Fat 8 average composition: 93% captylic, 4% captic and 3% caproic. Titer, 16°C. max.; iodine value 1 max.; acid value 387 to 392; unsaponifiable and moisture content 0.2% max. each; color (Lovibond 5¼″) 2R to 20Y max.

Capric acid

Neo-Fat 10 average composition: 92% capric, 5% lauric and 3% caprylic. Specifications include titer of 28 to 33°C.; iodine value of 1 max.; acid value of 323 to 329; moisture and unsaponifiable content both 0.2% max.; and color, (Lovibond 514") 2R to 20Y max.

Lauric acid

Neo-Fat 12 average composition: 95% lauric, 4% myristic and 1% capric. Specifications: titer, 41 to 44°C.; iodine value of 1 max.; acid value, 278 to 282; moisture and unsaponifiable content both 0.2% max.; color (Lovibond 5¼") 1R to 10Y, Gardner scale 1 max.

Myristic acid

Neo-Fat 14 average composition: 94% myristic, 3% lauric, 3% palmitic. Specifications are: titer, 48-52; iodine value of 1 max.; acid value of 243-249; moisture and unsaponifiable content both 0.2% max.; color (Lovibond 51/4") 1R to 10Y max.

Refined or distilled low titer

Neo-Fat 42-06 and 42-12 are particularly adaptable for jell, liquid and dry-cleaning soaps. The lower resin content of 42-06 makes it especially good for jell and liquid soaps, as well as waterless hand cleaners. Average composition of Neo-Fat 42-06 is 50% oleic, 40% linoleic and 4% linolenic, with 6% resin. Neo-Fat 42-12 averages 46% oleic, 39% linoleic, 3% linolenic and 12% resin

Stripped coconut fatty acid

Neo-Fat 255 (stripped coco) is remarkable for the absence of the irritating lower molecular weight acids (capric, caprylic, caproic). It is excellent for shampoos and liquid hand soaps requiring bland characteristics. Average composition: 57% lauric, 21% myristic, 10% palmitic, 7% oleic, 3% linoleic and 2% stearic.

Resin acids

Neo-Fat 42-70 contains 18% oleic acids, 14% linoleic acids, 1% linolenic acids, and 67% resin as abietic. Like rosin, it can be blended readily with other fats, oils, and fatty acids. Saponification is almost instantaneous.

These are only a few of our chemicals for the soap field. From the most complete line of fatty acids you can find anywhere, Armour has a pure fatty acid tailor-made to fit your exact needs. And our fractional distillation process permits controlling the concentrations of any of these pure fatty acids to provide a blend that will meet any specifications. Write to Armour today for complete information on these versatile fatty acids.

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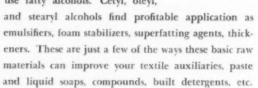
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Automatic Scale Co., P. O. Box 896, Joliet, Ill. Consolidated Packaging Machy. Corp., 1400 West Ave., Buffalo Consolidated Prods. Co., 15-21 Park Row, N. Y. 38 (Used) Exact Weight Scale Co., 944 W. 5th Ave., Columbus, O. J. L. Ferguson Co., Joliet, Ill.

First Machy. Corp., 157 Hudson St., N. Y. (Used)

Frazier & Son, Belleville, N. J. B. F. Gump Co., 1338 S. Cicero Ave., Chicago (Bbls & Bags) Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used) Perl Machine Mfg. Co., 72 Jay St., Brooklyn 1
Pneumatic Scale Corp., North Quincy, Mass.
Sprout, Waldron & Co., Muncy, Pa.
Stokes & Smith Co., 4915 Summerdale Ave., Philadelphia
Triangle Package Machine Co, 6643 W. Diversey Blvd., Chicago Weigh Right Automatic Scale Co., Joliet, Ill.

FILLING MACHINERY (for Liquids, in Small Bottles, Cans, Etc.)

Alsop Engineering Corp., 103 Green St., Milldale, Conn. F. L. Burt Co., 571 7th St., San Francisco 3 Consolidated Packaging Machy, Corp., 1400 West Ave., Buffalo

Consolidated Prods. Co., 15-21 Park Row, N. Y. 38

(Used)

Ertel Engineering Corp., W. Front St., Kingston, N. Y.

First Machy, Corp., 157 Hudson St., N. Y. (Used)

Horix Mfg. Co., Pittsburgh 4, Pa.

Hornney & Co., 420 Lexington Ave., N. Y.

Karl Kiefer Machine Co., 919 Martin St., Cincinnati

M. R. M. Co., 191 Berry St., Bklyn.

Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,

Chicago, (Used)

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Chicago (Used)

Chicago (Used)
Packer Machinery Corp., 32 Irving Pl., N. Y.
Perl Mach. Mfg. Co., 72 Jay St., Brooklyn 1
Pneumatic Scale Corp., North Quincy, Mass.
Geo. G. Rodgers Co., 2401 Third Ave., N. Y.
Chas. Ross & Son Co., 148 Classon Ave., Bklyn.
Scientific Filter Co., 59 Rose St., N. Y.
F. J. Stokes Machine Co., 5918 Tabor Rd., Philadelphia
Triangle Package Machinery Co., 6643 W. Diversey Ave.,
Chicago 35

S. Bottlers Machinery Co., 4019 N. Rockwell St., Chicago Weigh Right Automatic Scale Co., Joliet, Ill.

FILLING MACHINERY (for Liquids in drums, carboys, large cans, etc.)

Alsop Engineering Corp., 103 Green St., Milldale, Conn. F. L. Burt Co., 571 7th St., San Francisco 3 Consolidated Prods. Co., 15-21 Park Row, N. Y. 38

(Used)
Ertel Engineering Corp., West Front St., Kingston, N. Y.
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Horix Mfg. Co., Pittsburgh 4
Hornney & Co., 420 Lexington Ave., N. Y.
Karl Kiefer Machine Co., 919 Martin St., Cincinnati
M-R-M Co., 191 Berry St., Bklyn.
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used)

Chicago (Used)
Packer Machinery Corp., 32 Irving Pl., N. Y.
Scientific Filter Co., 59 Rose St., N. Y.
U. S. Bottlers Machy. Co., 4019 N. Rockwell St., Chicago

FILLING MACHINERY (for Paste in cans, drums)

Arenco Mach. Co, 25 W. 43rd St., N. Y. 18 F. L. Burt Co., 571 7th St., San Francisco 3 Consolidated Prods. Co., 15-21 Park Row, N. Y. 38

First Machy. Corp., 157 Hudson St., N. Y. (Used)
Karl Kiefer Machine Co., 919 Martin St., Cincinnati 2
Filpaco Industries, 2464 S. Michigan Ave., Chicago
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,

Chicago (Used)
Perl Mach. Mfg. Co., 68 Jay St., Brooklyn 1
Stokes & Smith Co., 4915 Summerdale Ave., Phila.

FILLING MACHINERY (for Pastes, Tubes)

Arenco Mach. Co., 25 W. 43rd St., N. Y. 18 F. L. Burt Co., 571 7th St., San Francisco 3 Clevon Products Co., 27-31 Mechanic St., Buffalo Arthur Colton Co., Detroit, Mich. Consolidated Prods. Co., 15-21 Park Row, N. Y. 38 (Used)

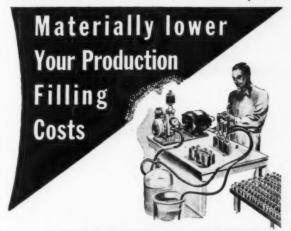
Filpaco Industries, 2464 S. Michigan Ave., Chicago First Machy. Corp., 157 Hudson St., N. Y. (Used) Karl Kiefer Machine Co., 919 Martin St., Cincinnati G. Diehl Mateer & Co., Devon 1, Pa. Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)

Chicago (Used)
Perl Machine Mfg. Co., 68 Jay St., Brooklyn 1
Chas. Ross & Son Co., 148 Classon Ave., Bklyn.
Geo. G. Rodgers Co., 2401 Third Ave., N. Y.
F. J. Stokes Machine Co., 5918 Tabor Rd., Philadelphia

FILLING MACHINERY (for free nowing dry products)

Brown Bag Filling Machy. Co., Fitchburg, Mass. Consolidated Package Machy. Corp., 1400 West Ave., Buffalo, N. Y. Consolidated Prods. Co., 15-21 Park Row, N. Y. 38 (Used) (Used)
Exact Weight Scale Co., Columbus, O.
J. L. Ferguson Co., Joliet, Ill.
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Frazier & Son, Belleville, N. J.
Hornney & Co., 420 Lexington Ave., N. Y.
Johnson Automatic Sealer Co., Battle Creek, Mich.

ERTEL BOTTLE FILLERS MEET DEMAND FOR 40-80 BOTTLES PER MINUTE, and



ERTEL PORTABLE FILLER

This Vacuum Bottle Filler belongs in every plant. Fills batch or sample lots of materials at lowest cost; for small operations where large expensive equipment is not practical. Fully automatic overflow—no drip spouts. Instantaneous flow won't fill defective or cracked bottle.

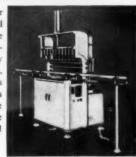


ERTEL ESA FILLER FOR SMALL BOTTLES

The most practical filler for small bottles in quantities of 40 to 60 per minute. To appreciate this unit it should be viewed in opera-- the finest low cost trouble-free unit on the

ERTEL PNEUMO-VAC FILLER Filling Range 3" to 13" High Bottle

For speeds up to 40 quarts per minute, this precision Ertel filler has no equal. New type spouts positively prevent drippage. Available with circulatory passages either bronze, plated, or stainless steel. Adjustments are simple and require but a few seconds time. If you have a filling problem see the Pneumo-Vac - it's designed for low cost operation.



Ask to have an Ertel representative show you why Ertel Fillers are so enthusiastically acclaimed by users in the pharmaceutical, drug, cosmetic, chemical and food industries.

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CORPORATION
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Branch Office & Showroom Located in New York City











Also Can Filling Machines, Tube Filling & Closing Machines and Bottle Cleaning Machines



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68 JAY STREET BROOKLYN 1, N. Y.

Mandel Products, 207 Astor St., Newark, N. J. G. Diehl Mateer & Co., Devon 1, Pa. Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used) Chicago (Used)
Packer Machinery Corp., 32 Irving Pl., N. Y.
Perl Machine Mfg. Co., 68 Jay St., Brooklyn 1
Pneumatic Scale Corp., North Quincy, Mass.
F. B. Redington Co., 112 S. Sangamon St., Chicago
Geo. G. Rodgers Co., 2401 Third Ave., N. Y.
Sprout, Waldron & Co., Muncy, Pa.
F. J. Stokes Mach. Co., 5918 Tabor Rd., Philadelphia
Stokes & Smith Co., 4915 Summerdale Ave., Phila.
Stuyvesant Engineering Co., Lyndhurst, N. J.
Triangle Package Machinery Co, 6643 W. Diversey Ave.,
Chicago

Chicago S. Automatic Box Machy. Co., Rosindale, Boston 31,

Weigh Right Automatic Scale Co., Joliet, Ill.

FILTER AIDS

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OF

American Colloid Co., Merchandise Mart Plaza, Chicago Attapulgus Clay Co., 210 W. Washington Sq., Phila. Carbide & Carbon Chem., 30 E. 42nd St., New York Commercial Filters Corp., 92 Liberty St., N. Y. Commercial Filters Corp., 92 Liberty St., N. Y.
Dicalite Div., 612 S. Flower St., Los Angeles
Filpaco Industries, 2464 S. Michigan Ave., Chicago
Filtrol Corp., 727 W. 7th St., Los Angeles
Hercules Filter Corp., 204 21st Ave., Paterson, N. J.
Industrial Chem. Sales Div., West Va. Pulp and Paper
Co., 230 Park Ave., N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Johns-Manville Corp., 22 East 40th St., New York
Paperless Clay & Mingral Co., Pueblo, Colo. Westvaco Chem. Div., Food Machy. & Chem. Corp., 405 Lexington Ave., N. Y. 17
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.

FILTER CLOTHS

Alsop Engineering Corp., 103 Green St., Milldale, Conn. Cleveland Wire Cloth & Mfg. Co., 3574 E. 78th St., Cleveland Cieveland
Ertel Engineering Corp., West Front St., Kingston, N. Y.
Filpaco Industries, 2464 S. Michigan Ave., Chicago
B. F. Gump Co., 1338 S. Cicero Ave., Chicago
Hercules Filter Corp., 204 21st Ave., Paterson, N. J.
Independent Filter Press Co., 189 Seventh St., Brooklyn
National Filter Cloth & Weaving Co., 220 E. 42nd St., National Filter Cloth & Weaving Co., 220 E. 42nd St., N. Y.

Newark Wire Cloth Co., 223 Verona Ave., Newark, N. J. Niagara Filter Corp., 3085 Main St., Buffalo, N. Y.

Oliver United Filters, Inc., 33 W. 42nd St., N. Y.

J. T. Perkins Co., 669 Kent Ave., Brooklyn

Wm. R. Perrin & Co., 349 W. 23rd St., Chicago

Scientific Filter Co., 59 Rose St., N. Y.

T. Shriver & Co., Harrison, N. J.

Test Fabrics, Inc., 224 W. 35th St., N. Y.

Valley Foundry & Mach. Works, 710 H. St., Fresno 10,

Calif.

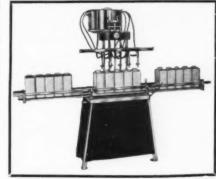
FILTER PAPER

Alsop Engineering Corp., 103 Green St., Milldale, Conn. Commercial Filters Corp., 92 Liberty St., N. Y. 6 Ertel Engineering Corp., W. Front St., Kingston, N. Y. Filpaco Industries, 2464 S. Michigan Ave., Chicago General Chemical Division, 40 Rector St., N. Y. Hercules Filter Corp., 204 21st Ave., Paterson, N. J. F. R. Hormann & Co., 186 Joralemon St., Brooklyn 2 Hornney & Co., 420 Lexington Ave., N. Y. Karl Kiefer Machine Co., 919 Martin St., Cincinnati, O. Niagara Filter Corp., 3085 Main St., Buffalo, N. Y. Scientific Filter Co., 59 Rose St., N. Y. T. Shriver & Co., Harrison, N. J. Sparkler Mfg. Co., Mundelein, Ill. Valley Foundry & Machine Works, 710 H. St., Fresno 10, Calif.

FILTER PRESSES

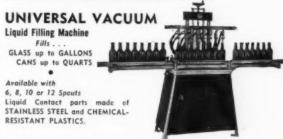
Alsop Engineering Corp., 103 Green St., Milldale, Conn. Consolidated Prods. Co., 15-21 Park Row, N. Y. 38 (Used) Ertel Engineering Corp., W. Front St., Kingston, N. Y. Filpaco Industries, 2464 S. Michigan Ave., Chicago

LLING MACHINES REDUCE FILLING COSTS! INCREASE PRODUCTION!



GRAVITY Liquid Filling Machine

Fills metal, glass and polyethylene containers from fractional ounces to 5 - GALLON capac-





Flexible! Vacuum JUNIOR

Filling Machine fills BOTTLES or CANS up to QUARTS!

Ideal for Packers of Pharmaceuticals Cosmetics Foods Chemicals Syrups Liquors

EFFICIENT PRODUCTION IN SMALL SPACE!!

All PACKER machines fill liquids . . . THIN . . . FOAMY . . . VISCOUS . . . HOT . . . Or COLD!

AMERICA'S LEADING INDUSTRIES GET MAXIMUM PRODUCTION . . . CUT FILLING COSTS WITH PACKER FILLING MACHINES!

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- Dow Chemical Co.
- 3. Socony-Vacuum Oil Co., Inc.
- Bristol-Myers Co.
- 5. The Procter & Gamble Co., Inc. 10. American Home Products Corp.
- 7. Zonite Products Corp. 8. U. S. Industrial Chemicals, Inc.
- 9. California Spray-Chemical Corp.
- PACKER HELP YOU WITH YOUR FILLING REQUIREMENTS PACKER ENGINEERS CAN SOLVE YOUR FILLING PROBLEMS.

PACKER

Machinery Corporation

32 IRVING PLACE, N. Y.

FEDERAL FLOOR FINISHES

SEALERS, WAXES and MAINTENANCE MATERIALS

FLOOR FINISHES

No-Burn Gym Finish*—The outstanding original finish for gym floors. Will not rubber burn—withstands boiling water, resists alkalies, acids, heat and cold.

Dri-Fast Seal & Finish*—The ideal speed finish for wood, linoleum and concrete floors. NOT A LACQUER. Base tung oil and phenol resins. Dries quickly—pale and long wearing.

Terrezze Finish*—Will not discolor or darken terrazzo. Dries quickly—can be buffed for beautiful lustre. Prevents dusting.

Flexi-Color Rubberized Color Cont*—For cement, concrete, wood, linoleum or metal. Tenaciously adheres to cement—stubbornly resists moisture.

Aspholt Tile Finish—Renews and refinishes asphalt, rubber linoleum and mastic floors. Seals and finishes new or old floors with one coat.

FLOOR SEALERS

Fed-Co*—Highest quality penetrating wood sealer. Exceptional hardness and wearing qualities—easily applied with mop or spray.

Penetroil*—Very pale in color. Approved by Maple Flooring Manufacturers Association. Properly fills the pores with a durable elastic film—water resistant.

Quick-Prime*—Fast drying oleo resinous type primer. Dries in less than two hours. Ideal for large industrial plants, mills, bakeries and schools where speed finishing is a must.

Terrazzo Seder*—Water white—will not discolor terrazzo. Prevents dusting, chipping and disintegration. Resists water, soap, acid and alkali.

Mastic (Asphalt)* Tile Sealer*—Seals tile against dust, dirt, grease, etc. Dries in less than an hour—will not soften tile or run the colors. Beautifies and highlights original colors.

Ready Mixed Color Concentrates—Beauty and durability for cement, concrete, wood and metal. Applied with brush or lamb's wool applicator. Resists oils, gasoline, alcohol, mild acids and alkalies.

WAXES

Lightning Lustre—Self polishing. Wear and water resistant. High lustre, Pure Carnauba Wax-Base finish. High in solids, pale in color.

Sie-Tred'—Self polishing. Tested and approved by Underwriters' Laboratories, Inc., as an anti-slip material. Made with Carnauba Wax—high gloss.

Liquid Oil Sase Wax—Buffs and polishes beautifully—easily applied with a mop or applicator. Super quality.

Super Lustre—An extremely high quality, extra heavy duty wax. Super Lustre Wax is traffic resistant and water proof for extra wear.

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MAINTENANCE AND FINISHING
MATERIALS . . .

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Magic Floor Spray

No-Burn Varnish Remover

Strip-Fast Stripper

Triple Strength Varnish Remover

Lightning Lustre Wax Base Soap

G.F.B. No. 2

GFR No 3

One Hour Finish

Water White Wood & Linoleum Finish

Lacquer Thinner

Street, Highway & Garage Marking

Fed-Co Aluminum Finish

Sani-Surf Gloss White Enamel

Sani-Surf White Eggshell Enamel

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Silax Paste Wood Filler

Base Stain Colors

Asphalt Tile Cleaner & Conditioner

Sila Kone Glass

Sil-Lox

Flex-Cote

 Listed and Approved by Underwriters Laboratories as an Anti-Slip Material.

A Quality Product for Every Surface

Federal Laboratories are constantly developing new products and perfecting new methods for beautifying and preserving all floor surfaces. Write for more information and FREE testing samples of these quality products. Ask, too, about our two-color 8½" x 11" catalog sheets that are available now.



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FILTER PRESSES (Contd.)

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Hercules Filter Corp., 204 21st Ave., Paterson, N. J.
F. R. Hormann & Co., 186 Joralemon St., Brooklyn 2
Hornney & Co., 420 Lexington Ave., N. Y.
Independent Filter Press Co., 189 Seventh St., Brooklyn
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used)
Niagara Filter Corp., 3085 Main St., Buffalo, N. Y.
Oliver United Filters, Inc., 33 W. 42nd St., N. Y.
Wm. R. Perrin & Co., 349 W. 23rd St., Chicago
T. Shriver & Co., Harrison, N. J.
Sparkler Mfg. Co., 201 Lake St., Mundelein, Ill.
D. R. Sperry & Co., Batavia, Ill.
United Filters Corp., Hazelton, Pa.
Valley Foundry & Machine Works, Fresno 10, Calif.

FIRE EXTINGUISHER FLUID

A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18
Amsco Solvents & Chemicals Co., 4619 Reading Road,
Cincinnati 29, Ohio
Bilco Chemical Co., 607 DeGraw St., Brooklyn, N. Y.
Buffalo Solvents & Chemicals Corp., Box 73 Station B,
Buffalo 7, N. Y.
Central Solvents & Chemicals Co., 2545 W. Congress St.,
Chicago 12, Ill.
Chemical Service Co. of Baltimore, Howard & West Sts.,
Balto. 30
Connecticut Chem. Research Corp., Bridgeport 5, Conn.
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia
Dow Chemical Co., Midland, Mich.
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good Co., Susquehanna Ave. & Martha St., Phila.
R. M. Hollingshead Corp., Camden, N. J.
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,
Indianapolis 22, Ind.
Michigan Chemical Corp., St. Louis. Mich.
Miranol Chemical Co., 16 Melville Pl., Irvington, N. J.
Missouri Solvents & Chemicals Co., 419 De Soto Ave.,
St. Louis 7, Mo.
Ohio Solvents & Chemicals Corp., 3470 W. 140th St.,
Cleveland 11, Ohio
Prior Chem. Corp., 420 Lexington Ave., N. Y.
Southern Solvents & Chemicals Corp., 1352 Jefferson

Cleveland 11, Ohio
Prior Chem. Corp., 420 Lexington Ave., N. Y.
Southern Solvents & Chemicals Corp., 1352 Jefferson
Highway, New Orleans 18, La.
Texas Solvents & Chemicals Co., 8501 Market St.,
Houston 15, Texas
Thompson-Hayward Chem. Co., Kansas City 8, Mo.
Trio Chemical Wks., 341 Scholes St., Brooklyn 6
Uncle Sam Chem. Co., 575 W. 131st St., New York
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,
Detroit 11, Michigan
Westvaco Chem. Div., Food Mach. & Chem. Corp.,
405 Lexington Ave., N. Y.
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,

Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee 14, Wis. Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids 9, Mich.

FIRE EXTINGUISHERS

American La France Foamite Corp., Elmira, N. Y.
Ansul Chemical Co., Fire Extinguisher Div., Marinette,
Wisc.
Badger Fire Extinguisher Co., Somerville, Mass.
Bridgeport Brass Co., Bridgeport, Conn.
C-O-Two Fire Equipment Co., U. S. Highway 1, Newark,
N. J.
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
Walter Kidde & Co., Belleville, N. J.
Lowell Mfg. Co., 589 E. Illinois St., Chicago
Pyrene Mfg. Co., Newark, N. J.
Safety Fire Extinguisher Co., 293 7th Ave., N. Y.
D. B. Smith & Co., 414 Main St., Utica, N. Y.

FIRE-PROOFING COMPOUNDS

Alrose Chem. Co., Box 1294, Providence, R. I.
Ampion Corp., 4-88 47th Ave., Long Island City, N. Y.
Antara Chemicals, Div. General Dyestuff Corp., 435
Hudson St., N. Y. 14
Atlantic Refining Co., 260 S. Broad St., Phila.
Chem. Service Co., of Baltimore, Baltimore 30
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago

E. I. du Pont de Nemours & Co., Wilmington, Del.
Eagle Soap Corp., Huntington, Ind.
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8
Fuld Bros., 702 S. Wolfe St., Baltimore
Hysan Prods. Co., 932 W. 38th Place, Chicago
Johns Manville Co., 22 E. 40th St., N. Y.
Monsanto Chemical Co., 1724 South Second St., St. Louis
Niacet Chemicals Corp., Niagara Falls, N. Y.
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey
City 2
Per-Mo Products Co., 1716 E. 36th St., Kansas City, Mo.
Mo.
Price Fire & Water Proofing Co., Poughkeepsie, N. Y.
Protexol Corp., 32 Market St., Kenilworth, N. J.
Theobald Industries, P. O. Box 72, Harrison, N. J.
Quaker Chem. Prods. Co., Conshohocken, Pa.

FIRE PUMPS (see listings under Fire Extinguishers)

FISH OILS

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2
Armour & Co., 1355 W. 31 St., Chicago
Atlas Refinery, Lockwood St., Newark, N. J.
Falk & Co., Pittsburgh
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave.,
N. Y. 17
Murray Oil Products Co., 21 West St., N. Y.
Neatsfoot Oil Refineries Corp., E. Ontario and Bath Sts.,
Phila.
Pacific Vegetable Oil Co., 62 Townsend St., San Francisco
J. H. Redding, Inc., 17 Battery Place, N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Swan Finch Oil Corp., 30 Rockefeller Plaza, N. Y.
Swift & Co., Chicago 9
Arthur C. Trask Co., 4103 S. La Salle St., Chicago
Welch, Holme & Clark Co., 439 West St., N. Y.
G. A. Wharry & Co., 95 Broad St., N. Y. 4

FISH OIL SOAPS

Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago Crystal Soap & Chem. Co., 6300 State Rd., Phila. James Good, Inc., 2116 E. Susquehanna Ave., Phila. R. M. Hollingshead Corp., Camden, N. J. Newell Gutradt Co., 350 Fremont St., San Francisco North Coast Chem. & Soap Works, Seattle, Wash. Peck's Prods. Co., 610 E. Clarence Ave., St. Louis Schaeffer Mfg. Co., 102 Barton St., St. Louis Silmo Chemical Co., Vineland, N. J. Welch, Holme & Clark Co., 439 West St., N. Y.

FLOATING SOAPS

Armour & Co., 1355 W. 31st St., Chicago
Beach Soap Co., Lawrence, Mass.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Colgate-Palmolive-Peet Co., Jersey City, N. J.
Cudahy Packing Co., 221 N. La Salle St., Chicago
J. Eavenson & Sons, Camden, N. J.
Haskins Bros. & Co., Omaha
Hewitt Soap Co., Dayton, Ohio
Lightfoot Schultz Co., 663 Fifth Ave., N. Y.
Newell Gutradt Co., 350 Fremont St., San Francisco
Schmidt Soap Products Co., 236 W. North Ave., Chicago
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

FLOOR FINISHES (Non-Wax)

American Floor Surfacing Machine Co., 518 S. St. Clair St., Toledo, O. Ampion Corp., 4-88—47th Ave., Long Island City, N. Y. Analab Laboratories, 285 Franklin St., Boston 10 Arnold Laboratories, 1515 W. Glenoaks Blvd., Glendale, Calif. Boston Chemical Industries, 64 E. Brookline St., Boston Buckingham Wax Co., 51-03 Van Dam St., L. I. City, N. Y. Candy & Co., 2515 W. 35th St., Chicago Chemical Compounding Corp., 262 Huron St., Bklyn.

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AN AMAZING NEW SELF-EMPTYING VACUUM CLEANER!



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It Sucks! It
Ejects! It Blows!
A new industrial
vacuum cleaner
for wet and dry
pick-up, that
empties itself
without removite
the lid! Light in
weight, easy
to demonstrate!
Equally effective
for sucking or
blowing!

A SENSATIONAL NEW 12" FLOOR MACHINE



REX "KEEN'S CYCLONE" BLOWER



Powerful, efficient, practical...packed with features that sell themselves! See it ... compare it ... learn why it's so easy to sell!

REX "Stocky" FLOOR



FLOOR TREATMENTS

RexGlo-X (floor wax)
RexGlo Concentrate
Rex Gym Seal
Rex FIRM-COTE, the new anti-slip floor wax

REX PORTABLE VACUUM CLEANER



CLEANERS

Rex Clensex Rex Lather (for rugs)
Rex Super-Clensex Rex Rug Shampoo
Rex Cleaner (powder)

REX FIRM-COTE

SLIP-PROOF, WATER-PROOF . . .

IDEAL FOR ALL HAZARDOUS FLOORS

Amazing Rex Firm-Cote is an ideal finish for asphalt... one that you can sell easily! It provides a beautiful, rich lustre that's easy and inexpensive to maintain. But, above all, Firm-Cote eliminates the SLIP HAZARD!

In addition, Firm-Cote is water-proof. It is equally efficient on linoleum, rubber, varnished surfaces, etc. Firm-Cote is a "natural" for jobbers and distributors in meeting the demand for a safe floor finish . . . one that is safe without being soft or sticky. It is available now. Write today for prices and other information!

SANITIZERS

Rex Att-O-Cide
Rex But-to-Kil
Rex But-to-Kil
Rex But To-Solve
Rex Roach-O-Cide

REX-CLEANWALL CORPORATION

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U. S. Sanitary Spec. Corp., 1001 S. California Ave. Chicago 12
Vestal, Inc., 4963 Manchester St., St. Louis 10
Victory Chem. Co., 148 Fairmount Ave., Phila.
T. F. Washburn Co., 2244 Elston Ave., Chicago
Windsor Wax Co., 611 Newark St., Hoboken, N. J.
G. H. Wood & Co., Toronto, Canada
Yosemite Chem. Co., 1040 Mariposa St., San Francisco

FLOOR MACHINES

Adams Prods., Inc., 248 W. Fairfield Ave., St. Paul Amer. Floor Surfacing Mach. Co., Toledo, O. Breuer Elect. Mfg. Co., 5100 N. Ravenswood Ave., Chicago 40
Clarke Sanding Machine Co., Muskegon, Mich. Columbus-Dixon, Inc., 333 E. 23rd St., N. Y. Finnell System, Inc., Elkhart, Ind. General Floorcraft Corp., 333 Sixth Ave., N. Y. Hild Floor Machine Co., 740 W. Washington St., Chicago Kent Co., 306 Canal St., Rome, N. Y. S. C. Lawlor Co., 122 N. Aberdeen St., Chicago Lincoln-Schlueter Floor Machy. Co., 1250 W. Van Buren St., Chicago Multi-Clean Prods., 2277 Ford Pkway., St. Paul Ponsell Floor Machine Co., 220 W. 19th St., N. Y. Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind. United Floor Machine Co., 7715 S. Chicago Ave., Chicago

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American Soap & Washoline Co., Cohoes, N. Y.
Ampion Corp., 47-02—5th St., Long Island City, N. Y.
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A GUIDE TO WAX PRODUCTS PURCHASING FOR PRIVATE BRAND RESALE

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Candy's DeLuxe
Bright Beauty (standard)
Candy's No. 640
Candy's Supreme Special WR
(AND-DOX #CS)
(AND-DOX #BB)

Seven floor waxes that are all-around top quality for any given traffic condition. Each imparts the finest protection and beauty to floors for which they are best suited.

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A cream furniture polish that spreads easily, polishes without excessive effort and imparts a deep impressive lustre. Too, it permits repeated repolishing with a dry cloth saving reapplication time and again; truly a very economical polish of very highest quality.

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A paste wax that is properly blended and refined from excellent quality solids and solvents that produce the best drying time and thorough evaporation. A wax that is easy to handle, having "creamy" consistency and stability throughout its stocking and usage period.

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Complete line of spirit dissolved waxes that meet a wide variety of demands for durability, color and types of usages. Each its own "Dry Cleaner," they keep a surface waxed with a superb protective coating necessary to many difficult surfaces such as certain floors (where adaptable), bars, wallpaper, etc.

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Basic advantages are freedom from "balling up," thus does not gather dirt and impregnate the floor with hard spots difficult to remove...also is free from dusty effects. Adds the protective quality to expensive ballroom floors that means more "floor-years" to users everywhere.

Bright Beauty Heavy Duty PASTE CLEANER

Really cleans and scours more effectively and quicker than most scouring powders. Depending on application, it can clean to perfection even painted walls to provide a suitable repainting surface. 100% active, free from excessive abrasive quality, it frees almost every surface from all forms of foreign matter to perfection. An honest appraisal of floor wax products as we see it is offered to guide wax buyers who want the best quality money can buy...

1. BEAUTY AND DURABILITY

should be considered together. Initial appearants is important, but for a waxed surface to remain beautiful it must be durable. Durability depends not only on resistance to the abrasion of traffic but even more so on resistance to the collection of dirt and to discoloring traffic marks. Durability is really measured by how long the waxed surface maintains a nice appearance before the necessity of complete removal and re-waxing.

2. ANTI SLIP

qualities are necessary in a good wax as a mater of safety underfoot. This important quality does not necessarily require the sacrifice of beauty and protection which are the foremost original reasons for the use of a wax. Look for the proper balance—a wax film which is not excessively slippery yet which is not tacky and does not excessively collect dirt.

3. WATER RESISTANCE

is important, particularly when considering the possibility of wet traffic and the necessity for frequent damp mapping for the purpose of removing surface dirt. Overdoing this quality mean greater difficulty in applying multiple coats of wax and may seriously increase the difficulty in removal when complete cleaning and re-waxing is necessary. Water resistance is important, but so is the quality of removability.

4. SOLID CONTENT

when expressed in percentage is not nearly as important as the quality of the solid content. When considering good quality, 12% of solids answers most needs for good planned maintenance programs. Two applications of 12% will give better results than one of 18%. However, the more concentrated material is useful for some programs of maintenance and particularly an "washed-out" floors, etc. Over-waxing should be avoided so that perjodic complete removal will not be too difficult.

5. CARNAUBA WAX

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FLOOR SCRUB SOAPS (Contd.)

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N. Y.
Candy & Co., 2515 W. 35th St., Chicago
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Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Clifton Chemical Co., 62 William St., N. Y.
Churchill Mfg. Co., Galesburg, Ill.
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia
Davies-Young Soap Co., Dayton, O.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Eagle Soap Corp., Huntington, Ind.
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8
Franklin Research Co., 5134 Lancaster Ave., Phila.
Fuld Bros., 702 S. Wolfe St., Baltimore
Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City
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6, Mo.

6, Mo.

Haag Laboratories, Inc., 140th and Seeley Ave., Blue Island, Ill.

Harley Soap Co., Pierce & Orthodox Sts., Philadelphia Hewitt Soap Co., Dayton, O.

Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.

Hunnewell Soap Co., 114 W. 2 St., Cincinnati 2

Hysan Prods. Co., 932 W. 38th Place, Chicago

Knoxall Corp., 1005 E. Sumner Ave., Indianapolis

Kranich Soap Co., 60 Richards St., Brooklyn

Lamco Chemical Co., 33 Commercial Wharf, Boston 10

Los Angeles Soap Co., 617 E. 1st St., Los Angeles

M. & H. Laboratories, 2705 Archer Ave., Chicago

Midland Labs., Dubuque, Iowa

National Milling & Chemical Co., 4601 Nixon St., Phila.

Nopco Chem. Co., Harrison, N. J. N. Y. Soap Co., 258 Third St., Brooklyn New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J. G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10

Louis 10
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Oil Kraft, Inc., 3330 Beekman St., Cincinnati 23
Oil Specialties & Ref. Co., 18 Bridge St., Bklyn.
Piatt & Smillie Chemicals, 2329 Pine St., St. Louis 3
Procter & Gamble Dist. Co., Cincinnati
Puritan Chem. Co., Atlanta, Ga.
Puritan Soap Co., 573 Lyell Ave., Rochester, N. Y.
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago

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Savin Products Co., 1221 Dorchester Ave., Boston 25
Schaeffer Mfg. Co., 102 Barton St., St. Louis
I. Schneid, Inc., 916 Ashby St., N.W., Atlanta, Ga.
S. S. Stafford, Inc., 603 Washington St., N. Y.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Theobald Industries, P. O. Box 72, Harrison, N. J.
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Tru-Pine Co., 7638 Vincennes Ave., Chicago 20
Twi-Lao Chemical Co., 25 N. Portland Ave., Bklyn.

Tru-Pine Co., 7638 Vincennes Ave., Chicago 20
Twi-Laq Chemical Co., 25 N. Portland Ave., Bklyn.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
U. S. Sanitary Spec. Corp., 1001 S. California Ave.,
Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis
Vestal. Inc., 4963 Manchester St., St. Louis 10
T. F. Washburn Co., 2244 Elston Ave., Chicago
Windsor Wax Co., 611 Newark St., Hoboken, N. J.
G. H. Wood & Co., Toronto, Ont., Canada
Allen B. Wrisley Co., 6801 W. 65th St., Chicago
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

FLOOR SEALERS (see Sealers)

FLOOR WAX APPLICATORS (see Applicators) FLOOR WAXES

American Floor Surfacing Mach. Co., 518 S. St. Clair St., Toledo, O. American Wax Co., 13-26 128th St., College Point, L. I. Ampion Corp., 47-02—5th St., Long Island City, N. Y. Analab Labs., 285 Franklin St., Boston 10 Antiseptol Co., 5524 Northwest Highway, Chicago Arnold Laboratories, 1515 W. Glenoaks Blvd., Glendale, Banner Chemical Products Co., 9 Calumet St., Newark 5, N. J.



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Cary Mfg. Co., San Diego 9, Calif.
Chemical Service Co. Howard & West Sts., Baltimore
Chicago Sanitary Prods. Co., 3100 Throop St., Chicago
Churchill Mfg. Co., Galesburg, Ill.
Clifton Chemical Co., 62 William St., N. Y.
C. M. C. Laboratories, 15 Vandewater St., N. Y. 38
Crystal Soap & Chemical Co., 6300 State Rd., Phila.
Davies-Young Soap Co., Dayton, O. Davies-Young Soap Co., Dayton, O.

E. I. du Pont de Nemours & Co., Wilmington, Del.

Eagle Soap Corp., Huntington, Ind.

Empire Chemical Prods. Co., 10 Longworth St., Newark,
N. J. Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8 Federal Varnish Division, S. Ashland Ave. at 29th St.,

Finnell System, Inc., Elkhart, Ind.
Franklin Research Co., 5134 Lancaster Ave., Phila.
Fuld Bros., 702 S. Wolfe St., Baltimore
Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City 6, Mo. 6, Mo.
James Good, Inc., 2116 Susquehanna Ave., Phila.
Haag Laboratories, Inc., Blue Island, III.
Harley Soap Co., Pierce & Orthodox Sts., Phila.
Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hunt Mfg. Co., Lisbon Rd., Cleveland
Hysan Prods. Co., 932 W. 38th Place, Chicago
Industrial Materials Co., 1017 McCall St., Houston, Tex.
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Schaeffer Mfg. Co., 102 Barton St., St. Louis
I. Schneid, Inc., 916 Ashby St., Atlanta, Ga.
Shawmut Specialty Co., 315 Centre St., Boston
Slick-Shine Co., 207 Astor St., Newark, N. J.
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
John C. Stalfort & Sons, 319 W. Pratt St., Baltimore
H. F. Staples Co., Medford, Mass.
Tesco Chemicals, Inc., Atlanta 5, Ga.
Theobald Industries, P. O. Box 72, Harrison, N. J.
Trio Chem. Wks., 341 Scholes St., Bklyn.
Twi-Laq Chemical Co., 25 N. Portland Ave., Brooklyn
Twin City Shellac Co., 340 Flushing Ave., Brooklyn
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
U. S. Sanitary Specialties Corp., 1001 S. California Ave.,
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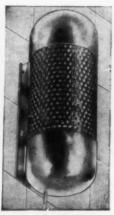
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Foote Mineral Co., 1609 Summer St., Philadelphia
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Rector St., N. Y.
Harshaw Chemical Co., 1945 97th St., Cleveland
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Mallinckrodt Chemical Work, St. Louis, Mo.

Mathieson Chemical Corp., Balto. 3

Merck & Co., Rahway, N. J.

Rosenthal Bercow Co., 25 E. 26th St., N. Y.

Solvay Process Div., Allied Chemicals & Dye Corp., 61

Broadway, N. Y.

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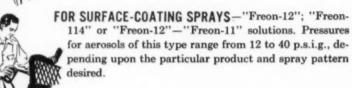
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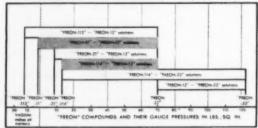


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Atlantic Refining Co., 260 S. Broad St., Philadelphia Attapulgus Clay Co., 210 W. Washington Sq., Phila. Chas B. Chrystal Co., 53 Park Pl., N. Y. Filpaco Industries, 2464 S. Michigan Ave., Chicago Filtrol Corp., 727 W. 7th St., Los Angeles Floridin Co., 200 Liberty St., Warren, Pa. Fullers Earth Co., 2049 E. 100th St., Cleveland General Reduction Co., 1820 Roscoe St., Chicago Harshaw Chemical Co., 1945 E. 97th St., Cleveland Heckathorn & Co., Richmond, Calif.
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.
Innis. Speiden & Co., 117 Liberty St., N. Y.
Jas. H. Rhodes & Co., 157 W. Hubbard St., Chicago Rosenthal Bercow, 25 E. 26th St., N. Y. 10
L. A. Salomon & Bro., 216 Pearl St., N. Y.
Sinclair Refining Co., East Chicago, Ind.
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago United Clay Mines Corp., 101 Oakland St., Trenton, N. J. Chas. A. Wagner Co., 813 Callowhill St., Phila.
Welch, Holme & Clark Co., 439 West St., N. Y.

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Shell Chem. Corp., 50 W. 50th St., N. Y.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5
Westvaco Chem. Div., Food Machy. & Chem. Corp., 405
Lexington Ave., N. Y.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich. Philadelphia

# GARBAGE PAILS AND CANS

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Rochester Can Co., 88 Greenleaf St., Rochester, N. Y.
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Wheeling Corrugating Co., Wheeling, W. Va.
Witt Cornice Co., 2118 Winchell Ave., Cincinnati

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GLASS BOTTLES and JARS (see Bottles)

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B. T. Babbitt, Inc., 386 4th Ave., N. Y. 16
Barton Chem. Co., 3907 S. Langley Ave., Chicago
Boston Chemical Industries, 64 E. Brookline St., Boston Boston Chemical Industries, 64 E. Brookline St., Boston 18
Chemical Service Co. of Baltimore, Howard & West Sts., Balt. 30
Churchill Mfg. Co., Galesburg, Ill.
Clifton Chemical Co., 62 William St., N. Y.
Davies-Young Soap Co., Dayton 1, O.
Eagle Soap Corp., Huntington, Ind.
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8
Franklin Research Co., 5134 Lancaster Ave., Phila. 31
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good, Inc., Kensington, Phila.
Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Masury Young Co., 76 Roland St., Boston 29
M. Michel & Co., 90 Broad St., N. Y.
Midland Labs., Dubuque, Ia.
M. & H. Laboratories, 2703-5 Archer Ave., Chicago
Nopco Chem. Co., Atlanta
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago
L Schneid, Inc., 916 Ashby St. Atlanta Ga ton 18 Theo. B. Robertson Prods. Co., 100 W. Discourse Chicago
Chicago
I. Schneid, Inc., 916 Ashby St., Atlanta, Ga.
Shell Chemical Corp., 50 W. 50th St., N. Y. 18
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
Theobald Industries, P. O. Box 72, Harrison, N. J.
Thompson-Hayward Chem. Co., Kansas City 8, Mo.
Trio Chemical Wks., 341 Scholes St., Brooklyn 6
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Sanitary Spec. Corp., 1001 S. California Ave.,
Chicago 12 Chicago 12

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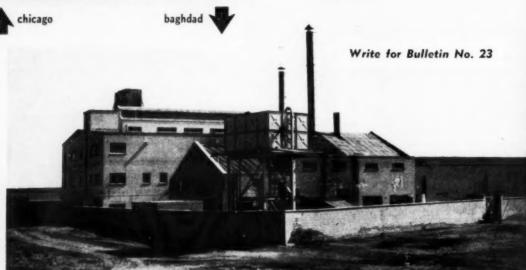
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Carbide & Carbon Chem., 30 E. 42nd St., N. Y. 13
Carlisle Chem. Wks., 510 Reading Rd., Reading, O.
Dow Chemical Co., Midland, Mich.
Glyco Products Co., 26 Court St., Brooklyn 2
Jefferson Chemical Corp., 260 Madison Ave., N. Y. 16
Mathieson Chemical Corp., Baltimore
Shell Chemical Corp., 50 W. 50th St., N. Y. 20
Van Dyk & Co., 11 Williams St., Belleville, N. J.
Jacques Wolf & Co., Passaic, N. J.
Wyandotte Chemicals Corp., Michigan Alkali Div.,
Wyandotte, Mich.

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Ampion Corp., 4-88 47th Ave, Long Island City, N. Y. Bridgeport Brass Co., Bridgeport, Conn. Chemical Service Co., Howard & West Sts., Baltimore 30 Columbia Chemical Co., 154 E. Erie St., Chicago 11 Connecticut Chemical Research Corp., Bridgeport 5, Conn.

Continental Filling Corp., 123 N. Hazel St., Danville, Ill. Fuld Bros., 702 S. Wolfe St., Baltimore Hysan Products Co., 932 W. 38th Place, Chicago Industrial Management Corp., 3350 San Fernando Rd., Los Angeles Col.

Los Angeles, Cal.
Tru-Pine Co., 7638 Vincennes Ave., Chicago 20
James Varley & Sons, 1200 Switzer Ave., St. Louis
G. H. Wood & Co., Toronto, Canada
Woodlets, Inc., Portland, Pa.

GOGGLES (see Gas Masks, etc.)

GRANULATED SOAPS (see list under Laundry Soaps; Chip Soap)

#### GREASE ABSORBENTS (for floors, etc.)

Agri-Indus Mfg. Co., Huntington Bank Bldg., Columbus, Ohio
Ampion Corp., 4-48 47th Ave., Long Island City, N. Y. Atlantic Refining Co., 260 S. Broad St., Phila. Chemical Service Co. of Baltimore, Howard & West Sts., Balto.
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8 Fuld Bros., Baltimore, Md.
R. M. Hollingshead Corp., Camden, N. J.
Hysan Products Co., 932 W. 38 Pl., Chicago 9
Frank Miller & Sons, 2250 W. 58 St., Chicago
Oil-Dri Corp., 520 N. Michigan Ave., Chicago 11
Old Empire Mfg. Chemists, Mt. Prospect & Verona Aves., Newark, N. J.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.

GREASES (See Tallow)

GREASES, LUBRICATING (see Petroleum Bases)

GREEN SOAP (see Potash Soap)

GRINDING MACHINERY (for milling, pulverizing, etc.)

Abbe Engineering Co., Little Falls, N. J.
American Pulverizer Co., 18th & Austin Sts., St. Louis
Consolidated Prods. Co., 15-21 Park Row, N. Y. 38
(Used)

(Used)
J. H. Day Co., 1144 Harrison Ave., Cincinnati
First Machy. Corp., 157 Hudson St., N. Y. (Used)
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St., St. Louis

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Albert Albek, Inc., 3573 Hayden Ave., Culver City, Cal. C. W. Campbell Co., 157 Chambers St., N. Y. Consumers Import. Co., 350 Fifth Ave., N. Y. T. G. Cooper & Co., Cedar & Venango Sts., Philadelphia Wm. Diehl & Co., 336 W. 42nd St., N. Y. 18

Dodge & Olcott, Inc., 180 Varick St., N. Y. 18

Dodge & Olcott, Inc., 180 Varick St., N. Y. Florasynth Laboratories, 1513 Olmstead Ave., Bronx, N. Y.

Gillespie-Rogers-Pyatt Co., 75 West St., N. Y. 16

Greene Trading Co., 60 Wall St., N. Y. 5 (Agents for Foreign Sellers)

Hercules Powder Co., 961 Market St., Wilmington, Dela. J. L. Hopkins & Co., 477 Keap St., Brooklyn, N. Y.

Industrial Raw Materials Corp., 575 Madison Ave., N. Y. 22

O. G. Innes Corp., 82 Wall St., N. Y.

Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y. 13

Morningstar, Nicol, Inc., 630 W. 51st St., N. Y. 19

National Starch Products, Inc., 270 Madison Ave., N. Y.

Onyx Oil & Chem. Co., 186 Warren St., Jersey City 2, N. J.

Orbis Products Corp., 215 Pearl St., N. Y.

Paisley Products Corp., 215 Pearl St., N. Y.

Paisley Products Corp., 215 Pearl St., N. Y.

Prentiss Drug & Chem. Co., 110 William St., N. Y.

Prentiss Drug & Chem. Co., 110 William St., N. Y.

J. H. Redding, Inc., 17 Battery Place, N. Y.

R. F. Revson Co., 144 W. 18th St., N. Y.

Rosenthal Bercow Co., 25 E. 26th St., N. Y.

William H. Scheel, Inc., 38 Franklin St., Bklyn.

Thurston & Braidich, 286 Spring St., N. Y.

U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5

Welch, Holme & Clark Co., 439 West St., N. Y.

#### GUMS, FUSED CONGO (Also other Varnish Gums)

Acme Shellac Prods. Co., 1005 Blanchard St., Newark, N. J.
Gillespie-Rogers-Pyatt Co., 75 West St., N. Y.
O. G. Innes Corp., 82 Wall St., N. Y.
S. B. Penick & Co., 50 Church St., N. Y. C.
William H. Scheel, Inc., 38 Franklin St., Bklyn. 22
U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5

#### GYM-FINISH FLOOR SEAL (see Sealers, Floor)

#### HAND CLEANERS (Powdered, Waterless, etc.)

Analab Labs., 285 Franklin St., Boston 10
Atlantic Refining Co., 260 S. Broad St., Phila.
Banner Chemical Prods. Co., 9 Calumet St., Newark 5,
N. J.
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
Chicago Sanitary Prod. Co., 3100 S. Throop St., Chicago 8
Crystal Soap & Chem. Co., 6300 State Rd., Phila.
Davies-Young Soap Co., Dayton 1, O.
Eagle Soap Corp., Huntington, Ind.
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8
Fuld Bros., 702 S. Wolfe St., Baltimore 3

R. M. Hollingshead Corp., Camden, N. J.

Hysan Prods. Co., 923 W. 38th Pl., Chicago
Kearny Mfg. Co., Kearny, N. J.
Knoxall Corp., 1005 E. Sumner Ave., Indianapolis, Ind.
Magnet Sales, 262 Mott St., N. Y.
M & H Laboratories, 2705 Archer Ave., Chicago 8
Mione Manufacturing Co., Collingdale, Pa.
Murro Chemical Co., Portsmouth, Va.
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.
Onyx Oil & Chem. Co., 186 Warren St., Jersey City 2
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St.
Louis 10
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.
Peck's Products Co., 610 E. Clarence Ave., St. Louis 15
Royal Soap & Chem. Co., 3486 Union Pacific Ave., Los
Angeles 23
I. Schneid, Inc., 916 Ashby St., Atlanta, Ga.
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
Sugar Beet Prods. Co., Saginaw, Mich.
Superior Chem. Prods., 47 N. Second St., Phila. 6
Theobald Industries, P. O. Box 72, Harrison, N. J.
Trio Chemical Wks., 341 Scholes St., Brooklyn 6
Yosemite Chem. Co., 1040 Mariposa St., San Francisco

HAND SOAP, LIQUID (see Liquid Soaps)

#### HAND SOAP (Mechanic's Hand Paste)

Aid Soap Mfg. Co., Rochester, Pa.
Albany Soap Corp., 46 Delaware Ave., Albany 3
Ampion Corp., 4-88 47th Ave., Long Island City, N. Y.
Analab Laboratories, 285 Franklin St., Boston 10
Antiseptol Co., 5524 Northwest Highway, Chicago
Armour & Co., 1355 W. 31st St., Chicago
Bilco Chemical Co., 607 DeGraw St., Bklyn.
Boston Chemical Industries, 64 E. Brookline St., Boston 18 Boston Chemical Co., 007 Decraw St., Brlyn.
Boston Chemical Industries, 64 E. Brookline St., Boston 18
Britex Corp., 17 Lewis Wharf, Boston 10
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
Chem. Service Co. of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Colgate-Palmolive-Peet Co., Jersey City, N. J.
Crystal Soap & Chem. Co., 6300 State Rd.. Philadelphia
Cudahy Packing Co., 221 N. La Salle St., Chicago
Davies Young Soap Co., Dayton, O.
Eagle Soap Corp., Huntington, Ind.
J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8
Flash Chem. Co., 160 2nd St., Cambridge, Mass.
Fuld Bros., 702 S. Wolfe St., Baltimore
Gaylord Chem. Co., 101 Woodsweather Rd., Kansas City
Higley Chem. Co., 101 Woodsweather Rd., Kansas City
Higley Chem. Co., Dubuaue, Iowa
R. M. Hollingshead Co., Camden, N. J.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Insto Co., Los Angeles 13
J. Chemical Works, 437 11th Ave., N. Y
Kearny Mfg. Co., Kearny, N. J.
Knoxall Corp., 1005 E. Sumner Ave., Indianapolis, Ind.
Los Angeles Soap Co., 617 E. First St., Los Angeles
Mione Mfg. Co., Collingdale, Pa.
Murro Chemical Co., Portsmouth, Va.
National Sanitary Prods. Co., 217 N. 2nd St., St. Louis
Newell Gutradt Co., 350 Fremont St., San Francisco
North Coast Soap & Chem. Wks., Seattle, Wash.
Old Empire Mfg. Chemists, Mt. Prospect & Verona Ave.,
Newark, N. J.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Procter & Gamble Dist. Co., Cincinnati
Puritan Chem. Co., Atlanta, Ga.
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Vliet Soap Co., 638 Monroe St., Brooklyn
Washine-National-Sands, Inc., 37-02 Northern Blvd.,
Long Island City
G. H. Wood & Co., Toronto, Ont., Canada
Woodlets, Inc., Portland, Pa.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago
Yosemite Chem. Co., 1040 Mariposa St., San Francisco

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Aid Soap Mfg. Co., Rochester, Pa.
Ampion Corp., 4-88 47th Ave., Long Island City. N. Y.
Analab Labs., 285 Franklin St., Boston 10
Armour & Co., 1355 W. 31st St., Chicago
Banner Chemical Products Co., 9 Calumet St., Newark, N. J.

Boston Chemical Industries, 64 E. Brookline St., Newark, N. J.

Boston Chemical Industries, 64 E. Brookline St., Boston Britex Corp., 17 Lewis Wharf, Boston 10
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
Chem. Service Co. of Balto., Howard & West Sts., Balto. Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago Churchill Mfg. Co., Galesburg, Ill.
Clifton Chemical Co., 62 William St., N. Y.
Crystal Soap & Chem. Co., 6300 State Rd., Phila.
E. F. Drew Co., 15 E. 26th St., N. Y. 10
Eagle Soap Corp., Huntington, Ind.
East Coast Soap Corp., 89 Coffey St., Bklyn.
J. Eavenson & Sons, Camden, N. J.
Essential Chemicals, 2200 N. 32nd St., Milwaukee 8
Fuld Bros. 702 S. Wolfe St., Baltimore
Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City
Hysan Prods. Co., 932 W. 38th Place, Chicago
Insto Co., Los Angeles 13
Los Angeles Soap Co., 617 E. 1st St., Los Angeles 51 Insto Co., Los Angeles 13
Los Angeles Soap Co., 617 E. 1st St., Los Angeles 51
Midland Laboratories, Dubuque, Iowa
M. & H. Laboratories, 2705 Archer Ave., Chicago
Mione Mfg. Co., Collingdale, Penna.
Murro Chemical Co., Portsmouth, Va.
National Milling & Chem. Co., 4601 Nixon St., Phila. 27
New Jersey Chem. Co., Lyndhurst, N. J.
Newell Gutradt Co., 350 Fremont St., San Francisco
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St.
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Pacific Coast Borax Co., 100 Park Ave., N. Y. 17
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Plunkett Chemical Co., 3500 S. Morgan Ave., Chicago 9
Port Huron Detergent Co., Port Huron, Mich.
Procter & Gamble Dist. Co., Cincinnati
Puritan Chem. Co., Atlanta
Puritan Co., 573 Lyell Ave., Rochester, N. Y.
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago
Rochester Germicide Co., 333 Hollenbeck St. Louis 10 Rochester Germicide Co., 333 Hollenbeck St., Rochester 5, N. Y. Rochester 5, N. Y.

S. & S. Soap Co., 815 E. 135 St., N. Y. 54

Skotch Prods. Corp., 2710 Detroit Ave., Cleveland

E. B. Snyder Labs., 2137 E. Harold St., Philadelphia

John T. Stanley Co., 642 W. 30th St., N. Y. John T. Stanley Co., 642 W. 30th St., N. Y. Sugar Beet Prods. Co., Saginaw, Mich. Tesco Chemicals, Inc., Atlanta 5, Ga. Theobald Industries, P. O. Box 72, Harrison, N. J. Trio Chem. Wks., 341 Scholes St., Bklyn.
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12
Utility Co., 636 W. 44th St., N. Y. Warren Soap Mfg. Co., Cambridge, Mass. G. H. Wood & Co., Toronto, Canada Woodlets, Inc., Portland, Pa. Allen B. Wrisley Co., 6801 W. 65th St., Chicago Yosemite Chem. Co., 1040 Mariposa St., San Francisco Zeen Chemical Co., 2000 Elm St., Cleveland

#### HARD WATER SOAPS (Salt Water Soaps)

Aid Soap Mfg. Co., Rochester, Pa.
Armour Soap Wks., 1355 W. 31st St., Chicago
Chemical Service Co., Howard & West Sts., Balt. 30
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
James Counts Soap Co., 2nd & Washington Aves., St.
Louis

Cudahy Packing Co., 221 N. LaSalle St., Chicago Duveen Soap Corp., 36-14 35 St., Long Island 6, N. Y. Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8 James Good, Inc., 2116 Susquehanna Ave., Phila. Harley Soap Co., Pierce & Orthodox Sts., Phila., Pa. Haskins Bros. & Co., Omaha, Neb. Hewitt Soap Co., Dayton, Ohio Higley Chemical Co., Dubuque, Iowa Kamen Soap Products Co., 233 Broadway, N. Y. C. Los Angeles Soap Co., Los Angeles, Calif. National Soap Co., 357 South 25th St., Tacoma, Wash. Newell Gutradt Co., 350 Fremont St., San Francisco, Cal. North Coast Soap & Chem. Works, Seattle, Wash. Peck's Prod. Co., 610 E. Clarence Ave., St. Louis Procter & Gamble Dist. Co., Cincinnati Theo. B. Robertson Prods. Co., 700 W. Division St., Chicago Schmidt Soap Products Co., 236 W. North Ave., Chicago Schmidt Soap Products Co., 236 W. North Ave., Chicago Theobald Industries, P. O. Box 72, Harrison, N. J. Vliet Soap Co., 638 Monroe St., Brooklyn Warren Soap Mfg. Co., Cambridge, Mass. Allen B. Wrisley Co., 6801 W. 65th St., Chicago, Ill. Chas. W. Young & Co., 1247 N. 26th St., Philadelphia

#### HEPTACHLOR (Technical)

Velsicol Corp., 330 E. Grand Ave., Chicago

#### HEXACHLOROPHENE

Sindar Corp., 330 W. 42nd St., N. Y. 18

#### HEXAETHYL TETRAPHOSPHATE

American Potash & Chem. Co., 3100 E. 26th St., Los Angeles
California Spray-Chemical Corp., Richmond, Calif. Geigy Co., 89 Barclay St., N. Y. 8
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
John Powell & Co., 1 Park Ave., N. Y.
Prentiss Drug & Chem. Co., 110 William St., N. Y.
Westvaco Chem. Div., Food Machy. & Chem. Corp.,
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Abbe Engineering Co., Little Falls, N. J.
Consolidated Prods. Co., 15-21 Park Row, N. Y. 38
(Used)
Eppenbach, Inc., 45-10 Vernon Blvd., Long Island City,
N. Y.
Manton Gaulin Mfg. Co., 44 Garden St., Everett, Mass.
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,
Chicago
Read Standard Corp., York, Pa.
Chas. Ross & Son Co., 148 Classon Ave., Brooklyn 5
U. S. Stoneware Co., 60 E. 42nd St., N. Y. 17
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

#### HOUSEHOLD AMMONIA (prepared, in bulk and private brand)

A-M-R Chem. Co., 985 E. 35th St., Brooklyn 18
Clifton Chemical Co., 62 William St., N. Y.
Corn King Co., Cedar Rapids, Ia.
Fergusson Laboratories, Drexel Bldg., Philadelphia
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good, Inc., 2112 E. Susquehanna Ave., Phila. 25
R. M Hollingshead Corp, Camden, N. J.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Theo. B. Robertson Prods. Co.
700 W. Division St., Chicago, Ill.
John T. Stanley Co., Inc., 642 W. 30th St., N. Y.
Tesco Chemicals, Inc., Atlanta 5, Ga.
Thompson Hayward Chem. Co., Kansas City, Mo.
Trio Chemical Wks, 341 Scholes St., Bklyn. 6
Washine-National-Sands, Inc., 37-02 Northern Blvd.,
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Ampion Corp., 4-88 47th Ave., Long Island City, N. Y. A.-M.-R Chem. Co., 985 E. 35th St., 8klyn. 18
Baird & McGuire, Inc., Holbrook, Mass.
Boston Chemical Industries, 64 E. Brookline St., Boston Brilco Labs., 1553-63rd St., Brooklyn
California Spray-Chemical Corp., Richmond, Calif.
Chase Prods. Co., 1816 St. Charles Rd., Maywood, Ill.
Chemical Compounding Corp., 262 Huron St., Brooklyn
Chemical Service Co., Howard & West Sts., Baltimore
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Churchill Mfg. Co., Galesburg, Ill.
Clifton Chemical Co., 62 William St., N. Y.
Connecticut Chem. Research Corp., Bridgeport 5, Conn.
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia
Eagle Soap Corp., Huntington, Ind.
Elkay Products Co., 323 W. 16th St., N. Y.
Exterminating Materials Co., 555 W. 22nd St., N. Y.
Fairfield Labs., Inc., 417 Cleveland Ave., Plainfield, N. J.
Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Co., 89 Barclay St., N. Y.
James Good, Inc., 2112 E. Susquehanna Ave., Phila.
Gulf Oil Co., Gulf Bldg., Pittsburgh
Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
James Huggins & Son, 239 Medford St., Malden, Mass.
Hunt Mfg. Co., Lisbon Rd., Cleveland
Hysan Prods. Co., 932 W. 38th Place, Chicago
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Klix Chem. Co., 2460 Third St., San Francisco
McCormick & Co., Baltimore, Md.
M. & H. Laboratories, 2703-5 Archer Ave., Chicago
Midland Labs., Dubuque, Ia.
Miller Products Co., Portland 1, Ore.
New Jersey Chem. Co., 56 Park Ave., N. J.
John Opitz Inc., 50-14—39th St., L. I. City
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Penna. Salt Mfg. Co., Widener Bldg., Phila.
Perrow Chem. Co., Atlanta
Quinn Drug & Chem. Co., Greenwood, Miss.
Rex-Cleanwall Corp., Brazil, Ind.
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago
Rochester Germicide Co., 333 Hollenbeck St., Rochester,
5, N. Y.
Schaeffer Mfg. Co., 102 Barton St., St. Louis, Mo. Rochester Germicide Co., 333 Hollenbeck St., Rochester, 5, N. Y.
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I. Schneid, Inc., 916 Ashby St., Atlanta, Ga.
Sinclair Refining Co., East Chicago, Ind.
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Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago
Standard Oil Co. (Ohio) Midland Bldg., Cleveland
Theobald Industries, P. O. Box 72, Harrison, N. J.
Trio Chem. Wks. 341 Scholes St., Bklyn.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Industrial Chems., Inc., 120 Broadway, N. Y. 5
U. S. Sanitary Specialties Corp., 1001 S. California
Ave, Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis
Virginia-Carolina Chem. Corp., Richmond, Va.
Windsor Wax Co., 611 Newark St., Hoboken, N. J.
G. H. Wood & Co., Toronto, Ont., Canada
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York Chemical Co., 23 Dean St., Bklyn. Rochester Germicide Co., 333 Hollenbeck St., Rochester,

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Boston Chemical Industries, 64 E. Brookline St., Boston Brilco Labs., 1553-63rd St., Bklyn, 19
California Spray-Chemical Corp., Richmond, Calif. Chemical Service Co., Howard & West Sts., Baltimore 30. Md. 30, Md.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago Clifton Chemical Co., 62 William St., N. Y.
Cornell Chem. & Equipment Co., Dillon Hgts. Ave., Balto.
Eagle Soap Corp., Huntington, Ind.
Elkay Products Co., 323 W. 16th St., N. Y.
Exterminating Materials Co., 555 W. 22nd St., N. Y.
Fuld Bros., 702 S. Wolfe St., Baltimore Geigy Co., 89 Barclay St., N. Y.
Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Koppers Co., Koppers Bldg., Pittsburgh
McCormick & Co., Inc., Baltimore, Md. McCormick & Co., Inc., Baltimore, Md.
Midland Labs., Dubuque, Ia.
Miller Prods. Co., Portland 1, Ore.
National Sanitary Prods. Co., 217 N. 2nd St., St. Louis
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.
John Opitz, Inc., 50-14 39th St., L. I. City
Penna. Salt Mfg. Co., Widener Bldg., Phila.
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.
Puritan Chemical Co., Atlanta
Rex-Cleanwall Corp., Brazil, Ind.
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago Chicago Chicago
Rochester Germicide Co., 333 Hollenbeck St.,
Rochester 5, N. Y.
Theobald Industries, P. O. Box 72, Harrison, N. J.
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
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Chicago 12 U. S. Santary Specialists
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Whitmire Res. Labs., 339 S. Vandeventer, St. Louis
Wilkil Company, 1174 S. La Brea Ave., Los Angeles
G. H. Wood & Co., Toronto, Ont., Canada
Woodlets, Inc., Portland, Pa.

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Armour & Co., 1355 W. 31st St., Chicago Archer-Daniels-Midland Co., Minneapolis 2 Concord Chem. Co., Moorestown, N. J. E. F. Drew & Co., 15 E. 26th St., N. Y. 10 Eastern Industries, Inc., Ridgefield, N. J. Emery Industries, 4300 Carew Tower, Cincinnati General Mills, Inc., Chem. Div., Minneapolis 1 A. Gross & Co., 295 Madison Ave., N. Y. 17 W. C. Hardesty Co., Inc., 41 E. 42nd St., N. Y. Spencer Kellogg & Sons, Buffalo, N. Y. Procter & Gamble Co., Cincinnati, O. Swift & Co., Chicago 9 Welch, Holme & Clark Co., 439 West St., N. Y. Wyandotte Chemicals Co., J. B. Ford Div., Wyandotte, Mich.

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Carbide & Carbon Chemicals, 30 E. 42nd St., N. Y. 17 Hercules Powder Co., 961 Market St., Wilmington, Dela.

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Dow Chemical Co., Midland, Mich.

E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chem., Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y. 6
Innis, Speiden & Co., 117 Liberty St., N. Y.
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis
Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.
Royce Chem. Co., Carlton Hill, N. J.
Welch, Holme & Clark Co., 439 West St., N. Y.
Jacques Wolf & Co., Passaic, N. J.

#### HYPOCHLORITES (see Chlorine) (see Laundry Bleach)

INDUSTRIAL SOAPS (see list under Laundry Soap, Chip Soap)

#### INSECTICIDE CONCENTRATES, Synthetic (see also Allethrin)

American Potash & Chemical Co., 3100 E. 26th St., Los California Spray-Chemical Corp., Richmond, Calif. Chipman Chem. Co., Bound Brook, N. J. Commercial Solvents Corp., 260 Broadway, N. Y. Cook Chemical Co., 935 Wabash, Kansas City, Mo. Diamond Alkali Co., Union Commerce Bldg., Cleveland



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Rector St., N. Y. 6
Geigy & Co., 89 Barclay St., N. Y.
Heckathorn & Co., Richmond, Calif.
Hercules Powder Co., 961 Market St., Wilmington, Dela.
Julius Hyman, Div., Shell Chemical Corp., Denver, Colo.
Kolker Chem. Wks., Div. Diamond Alkali Co., 80 Lister
Ave., Newark, N. J.
Koppers Co., Pittsburgh 19
McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis 14 McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis 14
Michigan Chemical Corp., St. Louis, Mich.
Penna. Salt Mfg. Co., Widener Bldg., Phila.
S. B. Penick & Co., 50 Church St., N. Y. 8
Pittsburgh Agricultural Chem. Co., 350 Fifth Ave., N. Y.
John Powell & Co., 1 Park Ave., N. Y.
Prentiss Drug & Chem. Co., 110 William St., N. Y.
Rohm & Haas, Inc., 222 W. Washington Sq., Phila.
Shell Chem. Corp., 50 W. 50th St., N. Y. 20
U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5
Velsicol Corp., 330 E. Grand Ave., Chicago
Virginia-Carolina Chem. Corp., Richmond 8, Va.
Westvaco Chem. Div., Food Machy. & Chem. Corp., 405
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Whitmire Research Corp., 339 E. Vandeventer, St. Louis

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American Nexa Corp., 342 Madison Ave., N. Y. Continental Chemiste Corp., 2068 W. Ogden Ave.

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INSECT POWDER (see Pyrethrum)

INSECT POWDER GUNS (see Blowers)

#### INSECT REPELLENTS

A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18
Bilco Chemical Co., 607 DeGraw St., Bklyn.
California Spray-Chemical Corp., Richmond, Calif.
Chase Prods. Co., 1816 St. Charles Rd., Maywood, Ill.
Carbide & Carbon Chems., 30 E. 42nd St., N. Y.
Connecticut Chem. Research Corp., Bridgeport, Conn.
Crystal Soap & Chem. Co., 6300 State Rd., Phila.
Dow Chemical Co., Midland, Mich.
Fairfield Labs., Inc., 417 Cleveland Ave., Plainfield, N. J.
Fuld Bros., Inc., 702 S. Wolfe St., Baltimore
Gunning & Gunning, Inc., 601 W. 26th St., N. Y. 1
Heckathorn & Co., Richmond, Calif.
Innis, Speiden & Co., 117 Liberty St., N. Y. 6
Kessler Chem. Co., 7272 State Rd., Phila.
Koppers Co., Pittsburgh 19
Michigan Chem. Corp., St. Louis, Mich. Michigan Chem. Corp., St. Louis, M Midland Laboratories, Dubuque, Iowa Monsanto Chemical Co., St. Louis 4 St. Louis, Mich. Monsanto Chemical Co., St. Louis 4
Old Empire Mfg. Chemists, Mt. Prospect & Verona Ave.,
Newark, N. J.
Pennsylvania Salt Mfg. Co., Widener Bldg., Phila. 7
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.
Puro Co., 2801 Locust St., St. Louis
Quinn Drug & Chem. Co., Greenwood, Miss.
Theobald Industries, P. O. Box 72, Harrison, N. J.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Whitmire Res. Labs., 339 Vandeventer, St. Louis
G. H. Wood & Co., Toronto, Ont., Canada
Woodlets, Inc., Portland, Pa.

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Gunning & Gunning, 601 W. 26th St., N. Y.
D. W. Hutchinson & Co., 162 Front St., N. Y.
Geo. Lueders & Co., 427 Washington St., N. Y. C.
Lautier Fils, Inc., 321 5th Ave., N. Y. C.
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Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., N. Y.
Naugatuck Aromatics, 254 Fourth Ave., N. Y.
N. Y. Aromatics Corp., High Bridge, N. J.
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.
S. B. Penick & Co., 50 Church St., N. Y.
S. B. Penick & Co., 50 Church St., N. Y.
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Schimmel & Co., 601 W. 26th St., N. Y.
Synfleur Scientific Labs., Monticello, N. Y.
Syntomatic Corp., 114 E. 32nd St., N. Y.
Tombarel Prods. Corp., 12 E. 22nd St., N. Y.
Ungerer & Co., 161 Ave. of Americas, N. Y. 13
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y. 19
Van Dyk & Co., Belleville, N. J.
Verona Chem. Co., 25 Verona Ave., Newark, N. J.

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INSECTICIDE VAPORIZERS (see Vaporizers, insecticide)

INSECTICIDES (see Household Insecticides, Agricultural

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Industrial Process Engineers, 8 Lister Ave., Newark 5,
N. J.
Lancaster Iron Works, 564 S. Prince St., Lancaster, Pa.
Littleford Bros., 443 E. Pearl St., Cincinnati
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago
Pfaudler Co., 89 East Ave., Rochester, N. Y.
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh
Read Standard Corp., York, Pa.
Geo. G. Rodgers Co., 2401 Third Ave., N. Y.
Chas. Ross & Son Co., 148 Classon Ave., Brooklyn 5
Sowers Mfg. Co., 1296 Niagara St., Buffalo, N. Y.
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KNEADERS (see Mixing Machinery)

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Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)
New Jersey Machine Corp., Hoboken, N. J.
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Illinois Chemical Labs., Gridley, Ill.
Kroner Laboratories, Inc., 275 Water St., N. Y. 7
Lederer Bacterological Labs., 269 S. 19th St., Phila.
J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y.
Molnar Laboratories, 211 E. 19th St., N. Y.
Alan Porter Lee Associates, 19 South St., Morristown,
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Paul H. Scrutchfield, 1237 Church St., Hannibal, Mo.
Seil, Putt & Rusby, 16 E. 34th St., N. Y.
Foster D. Snell, 29 W. 15th St., N. Y.
Van Pell Chem. & Supply Co., 48 E. 1st St., N. Y.
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United States Testing Co., 1415 Park Ave., Hoboken,
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Wisconsin Alumni Research Foundation, Madison, Wis.

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Albino Farms, Red Bank, N. J. Breeding & Lab. Inst., 619 Kent Ave., Brooklyn Foster D. Snell, 29 W. 15th St., N. Y. 11

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(see also Testing Devices)

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Cargille Scientific, Inc., 118 Liberty St., N. Y. 6 (chlorine and quaternary test kits)

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Eimer & Amend, 633 Greenwich St., N. Y.

Ertel Engineering Corp., West Front St., Kingston, N. Y. (Filters)

Fisher Scientific Co., Pittsburgh

Emil Greiner Co., 161—6th Ave., N. Y.

Laboratory Construction Co., 111 Holmes St.,

Kansas City, Mo.

J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J. (mills and plodders)

Chas. Ross & Son Co., 148 Classon Ave., Brooklyn 5 (roller mills and mixers)

Scientific Materials Co., Pittsburgh

Arthur H. Thomas Co., Wash. Sq., Phila.

U. S. Stoneware Co., 60 E. 42nd St., N. Y. 17 (Ball Mills)

U. S. Testing Co., 1415 Park Ave., Hoboken, N. J.)

Will Corp., Rochester, N. Y.

#### LABORATORY CHEMICALS

J. T. Baker Chemical Co., Phillipsburg, N. J.
E. I. du Pont de Nemours & Co., Wilmington
Fine Organics, Inc., 211 E. 19th St., N. Y. 3
Fisher Scientific Co., 717 Forbes St., Pittsburgh
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Mallinckrodt Chemical Works, 3600 N. 2nd St., St. Louis
Merck & Co., Rahway, N. J.

#### LABORATORY TESTING EQUIPMENT (see Testing Devices)

#### LANOLIN

American Lanolin Corp., Lawrence, Mass.
Bopf-Whittam Corp., Linden, N. J.
Botany Worsted Mills, Passaic, N. J.
Frank G. Fanning Co., 352 Doremus Ave., Newark, N. J.
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.
Griffin Chem. Co., 1000 16th St., San Francisco
Hummel Chemical Co., 90 West St., N. Y.



### LABORATORY SERVICES

#### BACTERIOLOGY

Bacteria, mold and yeast counts Evaluation of: Disinfectants Fungicides Sanitizers Phenol coefficients Coliform tests Food products: Inspection of production facilities

#### .

TOXICOLOGY

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Skin irritation tests

Patch tests

MYCOLOGY
Mildew (fungus)
resistance tests:
Environmental
Soil burial
Pure culture

#### ASSAYS

Antibiotics Vitamins Amino acids

#### CHEMICAL ANALYSIS and PHYSICO-CHEMICAL EVALUATION of:

Abrasives & Fillers, Insecticides, Household Cleaning Compounds, Bleaching Agents, Soaps & Soap Products, Industrial Cleaning Compounds, Alkaline & Synthetic Detergents, Essential Oils, Cosmetics, Floor Waxes, Gums & Resins, Oils, Fats & Waxes, Furniture & Metal Polishes, Rugs & Upholstery Cleaners, Sulfonated & Sulfated Oils.

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PRODUCT CERTIFICATION

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A new yardstick for measurement of the excellence of your product.

A control panel of subjects under the direction and supervision of a staff of trained psychologists working with other trained specialists are ready to "react" to your product scientifically and impartially.

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# Free-Flowing

#### POWDERED LANOLIN SOAP

Powdered anhydrous free-flowing lanolin soap is new. LANOMAL\* (1 & 2) means easier, less costly "lanolizing" of powdered and cake soap.

LANOMAL is added by direct mixing, simplifying production blending.

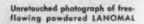
LANOMAL (1 & 2) safeguards against defatting, is a protective for those allergic to ordinary laundry and hand soaps.

Now is the time for adding sales with a fresh new campaign based on the LANOMAL development. Get aboard the driving force of proven lanolin appeal.

Call or write-we'll be happy to send you working samples.

Prompt delivery in commercial quantities.

\*NIMCO POWDERED LANGLIN SOAP



147 Lombardy St., Brooklyn 22, N. Y.

612 N. Michigan Ave., Chicago 11, III.

#### TYPICAL ANALYSIS (WHEN PACKED)

#### LANOMAL SOAP #1 (POWDERED)

Lanomal Soap #1 is a prepared free flowing powdered product manufactured by blend-ing 25% of Bentonite with 75% of "Lanolin Soap", with the fol-lowing typical analysis: Moisture 2.5%

Moisture 2.5%
Unsap, (Lanclin Alcohols) 34.0%
Sodium Soap
Combined Sodium Oxide 7.8%
Saponified Lanclin
Fatty Acids 55.7%
Free Alkali
Ph. of 5% aqueous
solution

. 9.5-10.0

#### LANOMAL SOAP #2 (POWDERED)

Moisture . . . . . Unsaponifiables (Lanolin Alcohols) . 5% Sodium Soap . . . . 94% Combined Sodium Oxide . . . . . 11% Saponified Lanolin Fatty Acids . . . 83% Free Alkali . . . . None Ph. of 5% aqueous solution . . 9.5-10.0

Packing: 300# bbls. or fibre containers.

free-MAL

7 #2 ) . 1%

. 5%

. 11%

. 83% None

5-10.0

ВООК



#### LANOLIN (Contd.)

Innis, Speiden & Co., 117 Liberty St., N. Y.
N. I. Malmstrom & Co., 147 Lombardy St., Brooklyn
Merck & Co., Rahway, N. J.
Pfaltz & Bauer, Inc., 350—5th Ave., N. Y.
Robinson-Wagner Co., 110 E. 42nd St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.

#### LARD OIL

Armour & Co., 1355 W. 31 St., Chicago
Neatsfoot Oil Refineries Corp., E. Ontario & Bath Sts.,
Phila. 34
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago
Theobald Industries, P. O. Box 72, Harrison, N. J.
Jos. Turner & Co., Ridgefield, N. J.
Swift & Co., Chicago
Welch, Holme & Clark Co., 439 West St., N. Y.

#### LAUNDRY BLEACH (Sodium Hypochlorite)

American Soap & Washoline Co., Cohoes, N. Y.
A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18
Columbia-Southern Chem. Corp., Pittsburgh
Cowles Chemical Co., 7016 Euclid Ave., Cleveland
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector
St., N. Y. 6
Guardian Chem. Co., 10-15 43 Ave., Long Island City,
N. Y.
Higley Chemical Co., Dubuque, Iowa
Hysan Products Co., 932 W. 38th Place, Chicago
H. Kohnstamm & Co., 91 Park Pl., N. Y.
Legrand Bleach Corp., 111—49th St., Brooklyn
Mathieson Chemical Corp., Baltimore
Monsanto Chemical Corp., Baltimore
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Rosenthal Bercow, Co., 25 E. 26th St., N. Y. 10
Theobald Industries, P. O. Box 72, Harrison, N. J.
Thompson-Hayward Chemical Co., Kansas City, Mo.
Jos. Turner & Co., Ridgefield, N. J.
Westvaco Chem. Div., Food Machy. & Chem. Corp., 405
Lexington Ave., N. Y.
Washine-National-Sands, Inc., 37-02 Northern Blvd.,
Long Island City
Welch, Holme & Clark Co., 439 West St., N. Y. 14

#### LAUNDRY BLUING

American Cyanamid Co., Calco Chemical Division,
Bound Brook, N. J.
Cowles Chemical Co., 7016 Euclid Ave., Cleveland
Diamond Alkali Co., Cleveland 14
E. F. Drew Co., 15 E. 26th St., N. Y. 10
Fezandie & Sperrle, 205 Fulton St., N. Y.
General Dyestuff Corp., 435 Hudson St., N. Y.
H. Kohnstamm & Co., 91 Park Pl., N. Y.
National Aniline Div., Allied Chem. & Dye Corp.,
40 Rector St., N. Y.
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Pylam Products Co., 799 Greenwich St., N. Y.
Washine-National-Sands, Inc., 37-02 Northern Blvd.,
Long Island City
Welch, Holme & Clark Co., 439 West St., N. Y.

#### LAUNDRY SOAP, CAKE

Aid Soap Mfg. Co., Rochester, Pa.
Albany Soap Corp., 46 Delaware Ave., Albany 3, N. Y.
American Soap & Washoline Co., Cohoes, N. Y.
Armour & Co., 1355 W. 31st St., Chicago
Beach Soap Co., Lawrence, Mass.
Chicago Sanitary Prods. Co., 3100 S. Throop St.,
Chicago S
Colgate-Palmolive-Peet Co., Jersey City, N. J.
Cudahy Packing Co., 221 N. La Salle St., Chicago
E. F. Drew Co., 15 E. 26th St., N. Y. 10
Du Bois Soap Co., Cincinnati, O.
East Coast Soap Corp., 89 Coffey St., Bklyn.
J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8
Fels & Co., Philadelphia

# SOAP

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Jobbers and Repackers Bulk or Packaged

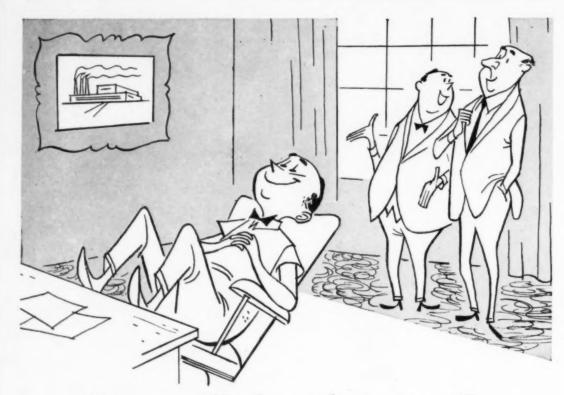
- SOAP FLAKES
- POWDERED SOAP
- MILLED TOILET SOAP
- · LIQUID SOAP
- POTASH GREEN SOAP
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SWIFT & COMPANY

Soap Department, Chicago 9, Illinois

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Hewitt Soap Co., Dayton, O.
Kamen Soap Products Co., 233 Broadway, N. Y. 7
Knolar Prods., Inc., 17th & Federal Sts., Camden, N. J.
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J.
Long Island Soap Co., Meeker Ave., & Bridgewater St.,
Brooklyn
Los Angeles Soap Co., Los Angeles, Calif.
Manhattan Soap Co., Bristol, Pa.
National Soap Co., 357 S. 25th St., Tacoma, Wash.
Newell Gutradt Co., 350 Fremont St., San Francisco, Cal.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
North Coast Chem. & Soap Wks., Seattle, Wash.
Standard Soap Co., Canden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Union Stock Yards, Chicago
Tennessee Soap Co., 1702 N. Thomas Ave., Memphis,
Tenn.
Viet Soap Co., 638 Monroe St., Brooklyn, N. Y.
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Miss.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago, Ill.

#### LAUNDRY SOAP, CHIP

Aid Soap Mfg. Co., Rochester, Pa.
Albany Soap Corp., 46 Delaware Ave., Albany 3, N. Y.
American Soap & Washoline Co., Cohoes, N. Y.
Armour & Co., 1355 W. 31st St., Chicago
Beach Soap Co., Lawrence, Mass.
Chicago Sanitary Prods. Co., 3100 S. Throop St.,
Chicago 8
Colgate-Palmolive-Peet Co., Jersey City, N. J.
E. F. Drew Co., 15 E. 26th St., N. Y. 10
Du Bois Soap Co., Cincinnati, O.
J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8
Harris Soap Co., Buffalo, N. Y.
Hewitt Soap Co., Dayton, Ohio
Kamen Soap Products Co., 233 Broadway, N. Y. C.
Knolar Prods. Inc., 17th & Federal, Camden, N. J.
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J.
Long Island Soap Co., Meeker Ave. & Bridgewater St.,
Brooklyn
Los Angeles Soap Co., Los Angeles, Calif.
Nat'l Milling & Chem. Co., 4601 Nixon St., Phila. 27
National Soap Co., 357 South 25th St., Tacoma, Wash.
Newell Gutradt Co., 350 Fremont St., San Francisco
North Coast Soap & Chem. Wks., Seattle, Wash.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Procter & Gamble Distributing Co., Cincinnati
Standard Soap Co., Camden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Union Stock Yards, Chicago
Tennessee Soap Co., 1702 N. Thomas Ave., Memphis,
Tenn.
Theobald Industries, P. O. Box 72, Harrison, N. J.
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago, Ill.

#### LAUNDRY SOAP, POWD. AND GRAN.

Aid Soap Mfg. Co., Rochester, Pa.
Albany Soap Corp., 46 Delaware Ave., Albany 3, N. Y.
American Soap Powder Wks., 100 Van Dyke St.,
Brooklyn, N. Y.
American Soap & Washoline Co., Cohoes, N. Y.
Armour & Co., 1355 W. 31st St., Chicago
Beach Soap Co., Lawrence, Mass.
Chicago Sanitary Prods., 3100 S. Throop St.,
Chicago 8
Colgate-Palmolive-Peet Co., Jersey City, N. J.
Cowles Chemical Co., 7016 Euclid Ave., Cleveland, Ohio
Cudahy Packing Co., 221 N. La Salle St., Chicago
E. F. Drew Co., 15 E. 26th St., N. Y. 10
Du Bois Soap Corp., Huntington, Ind.
J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.
Essential Chem. Co., 2200 N. 32nd St., Milwaukee 8
Hewitt Soap Co., Dayton, Ohio
Kamen Soap Products Co., 233 Broadway, N. Y. C.
Knolar Prods., Inc., 17th & Federal Sts., Camden, N. J.
Los Angeles Soap Co., Los Angeles, Calif.
Miranol Chemical Co., 16 Melville Pl., Irvington, N. J.
Murro Chemical Co., Portsmouth, Va.
National Milling & Chem. Co., 4601 Nixon St., Phila. 27
National Soap Co., 357 South 25th St., Tacoma, Wash.

Newell Gutradt Co., 350 Fremont St., San Francisco Nopco Chem. Co., Harrison, N. J.
North Coast Soap & Chem. Wks., Seattle, Wash.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St.
Louis 10
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Port Huron Detergent Co., Port Huron, Mich.
Procter & Gamble Distributing Co., Cincinnati
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
Standard Soap Co., Camden, N. J.
John Stanley Co., 642 W. 30th St., N. Y.
Stevens Soap Corp., 202 Sullivan St., Brooklyn
Swift & Co., Union Stock Yards, Chicago
Tennessee Soap Co., 1702 N. Thomas Ave., Memphis 1,
Tenn.
Theobald Industries, P. O. Box 72, Harrison, N. J.
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago, IH.
Chas. W. Young & Co., 1247 N. 26th St., Phila.

#### LAUNDRY SODA (see Soda)

#### LAUNDRY SOURS (Fluoride, etc.)

American Fluoride Corp., 151 W. 19th St., N. Y. Blockson Chemical Co., Joliet, Ill. Diamond Alkali Co., Cleveland 14
E. F. Drew Co., 15 E. 26th St., N. Y. 10
E. I. du Pont de Nemours & Co., Wilmington
General Chem. Div., Allied Chem. & Dye Corp., 46
Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Innis, Speiden & Co., 117 Liberty St., N. Y.
H. Kohnstamm & Co., 91 Park Pl., N. Y.
National Milling & Chemical Co., 4601 Nixon St., Phila.
27
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Port Huron Detergent Co., Port Huron, Mich.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
John T. Stanley Co., 642 W. 30th St., N. Y. C.
Henry Sundheimer, Inc., 103 Park Ave., N. Y.
Weich, Hoime & Clark Co., 439 West St., N. Y.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte,
Mich.
Chas. W. Young & Co., 1247 N. 26th St., Phila.

#### LAVENDER OIL (see Essential Oils)

#### LAURIC ACID (see also Fatty Acids)

Armour & Co. 1355 W. 31st St., Chicago
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
El Dorado Oil Wks., 31 California St., San Francisco
General Mills, Chem. Div., 400 S. 2nd Ave., Minneapolis 1
Griffin Chem. Co., 100 16th St., San Francisco, Calif.
A. Gross & Co., 295 Madison Ave., N. Y. 17
W. C. Hardesty Co., 41 E. 42nd St., N. Y.
Robinson Wagner Co., 110 E. 42nd St., N. Y.
Swift & Co., Chicago
Welch, Holme & Clark Co., 439 West St., N. Y. 14
Woburn Chemical Corp., Harrison, N. J.

#### LAURYL ALCOHOL

Archer-Daniels-Midland Co., Minneapolis 2 E. I. du Pont de Nemours & Co., Wilmington, Del. Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y. C. M. Michel & Co., 90 Broad St., N. Y. Robinson Wagner C., 110 E. 42nd St., N. Y. Welch, Holme & Clark Co., 439 West St., N. Y. 14

#### LEAD ARSENATE

Amer. Agricultural Chem. Co., 50 Church St., N. Y. California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.
Chipman Chem. Co., Bound Brook, N. J.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours, & Co., Inc., Wilmington, Del. Geigy Co., 89 Barclay St., N. Y.
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
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Sherwin-Williams Co., Cleveland, O.

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potency, rapid action, and residual control. Kills more than 200

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American Lecithin Corp., Corona Ave., Elmhurst, L. I. Archer-Daniels-Midland Co., Minneapolis 2 W. A. Cleary Corp., New Brunswick, N. J. Digestive Ferments Co., 930 Henry St., Detroit Enco Co., 441 Lexington Ave., N. Y. General Mills, Inc., Chem., Div., Minneapolis 1 R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y. Merck & Co., Rahway, N. J. Ross & Rowe, Inc., 50 Broadway, N. Y. Soya Corp. of America, 36 Rockefeller Plaza, N. Y. Welch, Holme & Clark Co., 439 West St., N. Y. Wilson Labs., 4221 S. Western Blvd., Chicago

#### LEMON OIL, LEMONGRASS OIL (see Essential Oils)

#### LIME (Live and Hydrated)

Aluminum Co. of America, Gulf Bldg., Pittsburgh California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.
Chas. B. Chrystal Co., 53 Park Pl., N. Y. 7

Dow Chemical Co., Midland, Mich.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6

Hoosac Valley Lime Co., Adams, Mass.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Lehigh Lime Co., 111 W. Washington St., Chicago
National Gypsum Co., 192 Delaware Ave., Buffalo, N. Y.
Penna. Salt Mfg. Co., Widener Bldg., Phila. 7

Rockland-Rockport Lime Co., Rockland, Maine
Thompson-Hayward Chem. Co., Kansas City 8, Mo.
U. S. Lime Prods. Corp., 85 Second St., San Francisco
Whiterock Quarries, Inc., Bellefonte, Pa.
Whittaker, Clark & Daniels, Inc., 260 Bway., N. Y.
Witco Chemical Co., 260 Madison Ave., N. Y.

#### LINDANE (Benzene Hexachloride, 99% gamma isomer)

California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.
Commercial Solvents Corp., 260 Broadway, N. Y. Ethyl Corp., 100 Park Ave., N. Y. General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.
Kolker Chem. Works, Div., Diamond Alkali Co., 80 Lister Ave., Newark, N. J.
Penn. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Pittsburgh Agric. Chem. Co., 350 5th Ave., N. Y.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Tennessee Prods. & Chem. Corp., American National Bank Bldg., Nashville, Tenn.
Westvaco Chem. Div., 405 Lexington Ave., N. Y.
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

#### LINALOE OIL (see Essential Oils)

LINALOOL (see Aromatic Chemicals)

LINERS (see Bag Liners)

#### LINING MACHINERY (Cartons)

Consolidated Prods. Co., 15-21 Park Row, N. Y. 38
(Used)
R. A. Jones & Co., Covington, Ky.
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,
Chicago (Used)
Pneumatic Scale Corp., North Quincy, Mass.
F. B. Redington Co., 112 S. Sangamon St., Chicago

#### LINSEED OIL

(see also Brokers and Dealers)

Archer-Daniels-Midland Corp., Minneapolis, Minn. Falk & Co., Pittsburgh Spencer Kellogg & Sons, Buffalo, N. Y. Pacific Vegetable Oil Corp., 62 Townsend St.. San Francisco J. H. Redding, Inc., 17 Battery Place, N. Y.

Rosenthal Bercow Co., 25 E. 26th St., N. Y. Sherwin Williams Co., Cleveland, Ohio Arthur C. Trask Co., 4103 S. LaSalle St., Chicago Welch, Holme & Clark Co., 439 West St., N. Y.

#### LINSEED OIL FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis 2 E. F. Drew & Co., 15 E. 26 St., N. Y. 16 Falk & Co., Pittsburgh 30 Spencer Kellogg & Sons, Buffalo, N. Y. Welch, Holme & Clark Co., 439 West St., N. Y. Woburn Chemical Corp., Harrison, N. J.

#### LINSEED OIL SOAP (see Potash Soaps)

LIQUID SOAP AND BASE (see Potash Soaps)

MACHINERY, USED (see Used Machinery)

#### MAGNESIUM CARBONATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. Chas B. Chrystal Co., 53 Park Pl., N. Y. 7
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector
St., N. Y. 6
Innis Speiden & Co., 117 Liberty St., N. Y. 6
Michigan Chemical Corp., St. Louis, Mich.
Merck & Co., Rahway, N. J.
Westvaco Chem. Div., Food Machy. & Chem. Corp., 415
Lexington Ave., N. Y. 17
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y. 13

#### MAGNESIUM OXIDE (Magnesia)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. J. T. Baker Chem. Co., Phillipsburg, N. J. Chas. B. Chrystal Co., 53 Park Pl., N. Y. 7 Diamond Alkali Co., 300 Union Commerce St., Cleveland 14

Dow Chemical Co., Midland, Mich.
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6

Harshaw Chemical Co., 1945 E. 97th St., Cleveland Innis, Speiden & Co., 117 Liberty St., N. Y. 6

Merck & Co., Rahway, N. J.

Mallinckrodt Chemical Wks., 2nd & Mallinckrodt Sts., St. Louis 7

Michigan Chem. Corp., St. Louis, Mich.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
E. E. Schundler & Co., Joliet, Ill.

Welch, Holme & Clark Co., 439 West St., N. Y.

Westvaco Chem. Div., Food Machy. & Chem. Corp., 405

Lexington Ave., N. Y.

Whittaker, Clark & Daniels, Inc., 260 W. Bway., N. Y. 13

Witco Chemical Co., 260 Madison Ave., N. Y.

#### MAGNESIUM STEARATE (see Stearates)

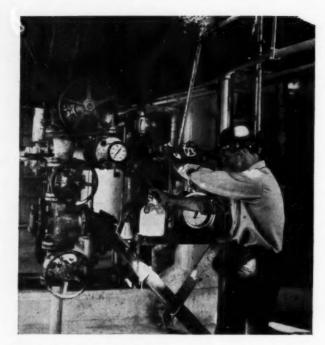
MAHOGANY SULFONATES (see Petroleum Sulfonates)

MAHOGANY SOAP (see also Naphthenic Acids, Naphthalene Sulfonates, Petroleum Sulfonates.)

Armour Soap Wks., 1355 W. 31st St., Chicago Colgate-Palmolive-Peet Co., Jersey City, N. J. E. F. Drew & Co., 152 E. 26th St., N. Y. 10 Emery Industries, 4300 Carew Tower, Cincinnati W. C. Hardesty Co., 41 E. 42nd St., N. Y. Indoil Chemical Co., 910 S. Michigan Ave., Chicago 80 Oil States Pet. Co., 233 Broadway, N. Y. Oronite Chemical Co., 38 Sansome St., San Francisco Pennotex Oil Corp., 29 Broadway, N. Y. 6 Pennsylvania Refining Co., Butler, Pa. John T. Stanley Co., 642 W. 30th St., N. Y.

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T. G. Cooper & Co., Cedar & Venango Sts., Phila. Gillespie-Rogers-Pyatt Co., 75 West St., N. Y. O. G. Innes Corp., 82 Wall St., N. Y. Wm. H. Scheel, Inc., 38 Franklin Street, Brooklyn Arthur C. Trask Co., 4103 S. LaSalle St., Chicago U.S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5



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Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Interchemical Corp., Hawthorne, N. J.
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Chas. Ross & Son Co., 148 Classon Ave., Bklyn. 5
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Kent Machine Works, 39 Gold St., Brooklyn
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Newman Tallow & Soap Mach., 1051 W. 35th St.,
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Baird & McGuire, Inc., Holbrook, Mass.
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Pecks Prods. Co., 610 E. Clarence Ave., St. Louis
Schmidt Soap Products Co., 236 W. North Ave., Chicago
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

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MUSKS, ARTIFICIAL (see Aromatic Chemicals)

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Atlantic Refining Co., 260 S. Broad St., Phila.
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National Aniline & Chem. Div., 40 Rector St., N. Y.
Oronite Chemical Co., 28 Sansome St., San Francisco
Pennsylvania Refining Co., Butler, Pa.
L. Sonneborn Sons, 300 4th Ave., N. Y.
Ultra Chemical Wks., 2 Wood St., Paterson, N. J.
Warwick Chemical Co., 10 St. & 44 Ave., Long Island
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#### NAPHTHENATES (see Copper Naphthenate, Zinc Naphthenate)

#### NAPHTHENIC ACIDS (and Sulfonic Sludges)

Advance Solvents & Chem. Co., 245—5th Ave., N. Y. Atlantic Refining Co., 260 Broad St., Philadelphia John H. Calo Co., 19 Rector St., N. Y. 6 Enjay Co., 15 W. 51st St., N. 1. 19 General Petroleum Corp., 108 W. 2nd St., Los Angeles Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6 Naftone, Inc., 515 Madison Ave., N. Y. 2 Nuodex Prods. Co., Elizabeth, N. J. Oronite Chem. Co., 38 Sansome St., San Francisco 4 Pennsylvania Refining Co., Butler, Pa. Petroleum Specialties, Inc., 400 Madison Ave., N. Y. Sherwood Refining Co., Englewood, N. J. L. Sonneborn Sons, 300 4th Ave., N. Y.

#### NEATSFOOT OIL

Armour & Co., 1355 W. 31 St., Chicago Neatsfoot Oil Refineries Corp., E. Ontario & Bath Sts., Phila. 34 Reilly-Whitman-Walton Co., Conshohocken, Pa. Swift & Co., Chicago Jos. 1 urner & Co., Ridgefield, N. J. Welch, Holme & Clark Co., 439 West St., N. Y.

#### NICKEL-CLAD EQUIPMENT (see also Soap Machinery)

Edge Moor Iron Wks., Edge Moor, Del.
Houchin Machinery Co., Hawthorne, N. J.
International Nickel Co., 67 Wall St., N. Y.
Alan Porter Lee Associates, 18 South St., Morristown,
N. J.
Littleford Bros., 453 E. Pearl St., Cincinnati
Lukens Steel Corp., Coatesville, Pa.
Patterson-Kelley Co., E. Stroudesburg, Pa.
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh
Project Construction Corp., 39 Broadway, N. Y. 6
Read-Standard Corp., York, Pa.
F. J. Stokes Machine Co., Philadelphia
Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago

#### NICOTINE COMPOUNDS

cago

St.,

Del.

di-

20

California Spray-Chemical Corp., Lucas and Ortho Way, Richmond, Calif.
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia General Chemical Div., Allied Chem. & Dye Corp.,
40 Rector St., N. Y.
Hood River Spray Co., Hood River, Ore.
Kay-Fries Chemicals, 180 Madison Ave., N. Y. 16
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Sanocide Spray Co., Fennville, Mich.
Tobacco By-Products & Chem. Corp., Richmond 8, Va.

#### NITRE CAKE (Sodium Acid Sulfate)

Amer. Agricultural Chem. Co., 50 Church St., N. Y. E. I. du Pont de Nemours & Co., Inc., Wilmington, Del. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. Rohm & Haas Co., 222 W. Washington Sq., Philadelphia Monsanto Chemical Co., 1724 S. 2nd St., St. Louis Penna. Salt Mfg. Co., Philadelphia Rosenthal Bercow Co., 25 E. 26th St., N. Y.

#### NITROPARAFFINS

Commercial Solvents Corp., 260 Madison Ave., N. Y. 16

#### NONYL PHENOL

Antara Chemicals, Div., General Dyestuff Corp., 435 Hudson St., N. Y. 14 Jefferson Chemical Co., 260 Madison Ave., N. Y. 16 Koppers Co., Chamber of Commerce Bldg., Pittsburgh

#### NOVELTY SOAPS

Armour & Co., 1355 W. 31st St., Chicago
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
8
Duveen Soap Corp., 36-14 35 St., Long Island City 6,
N. Y.
Hewitt Soap Co., Dayton, O.
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J.
Peck's Products Co., 610 E. Clarence Ave., St. Louis
Schmidt Soap Products Co., 236 W. North Ave., Chicago
John T. Stanley Co., 642 W. 30th St., N. Y.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### NOZZLES, for agricultural, insecticide and portable sprayers

Bete Fog Nozzle Co., Greenfield, Mass. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago, Ill. Spraying Systems Co., 3266 Randolph St., Bellwood, Ill.

#### NOZZLES, FOR SPRAY SYSTEMS

Bete Fog Nozzle Co., Greenfield, Mass. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11 Monarch Mfg. Works, 3406 Miller St., Phila. Spraying Systems Co., 3266 Randolph St., Bellwood, Ill. Z & W Mach. Prods., 5151 St. Clair Ave., Cleveland 14

#### ODORLESS KEROSENE (see Petroleum Insecticide Base Oils, Deodorized)

OIL, BASE (see Petroleum Insecticide Base Oils)



#### soap manufacturers

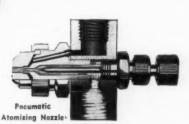
Typical Spraying Systems spray nozzles for soap manufacturing are shown here. The Whirljet Nozzle is built with a tungsten carbide whirl chamber and orifice insert for high abrasion resistance. This nozzle is recommended as a long-life unit for soap spray drying.



WHIRLJET

34 BBSSTC

Spraying Systems Pneumatic Atomizing Nozzles such as shown below provide extremely fine atomization, uniform spray pattern, and exact volume control for such operations as perfume spraying.



insecticide distributors and pest control contractors

For the residual spraying of insecticides, Spraying Systems TeeJet Spray Nozzles give you the exact even distribution that makes this type of spraying effective. TeeJet Nozzles are precision made, and provide a highly uniform flat spray pattern. Orifice tips are interchangeable and are available in any capacity required.

SPRAY NOZZLE ACCESSORIES . . . wide range supplied such as line strainers, suction strainers, fittings, connectors, adjustable nozzles and hand valves.



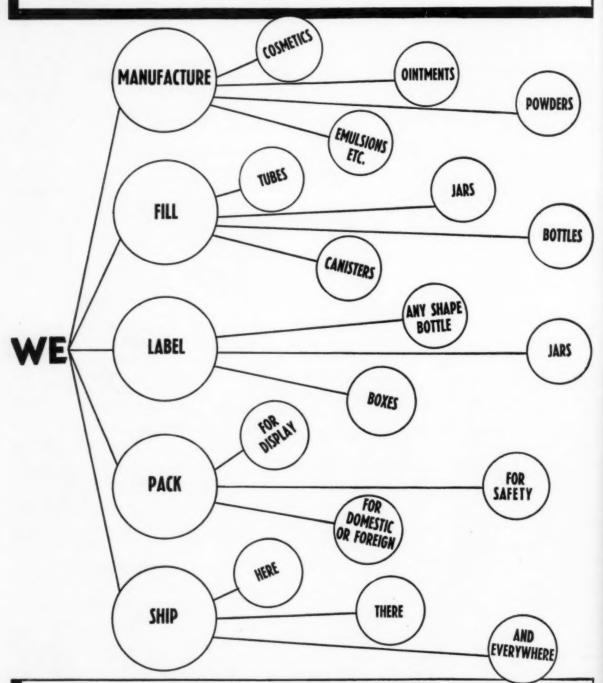
Trigger TeeJet with Curved Extension . . . gives hand valve control in spraying. Quality built for long-life effective operation.

MulTeeJet Tip Assembly . . . this nozzle can be rotated to index to four different positions, giving four types of spray in one nozzle. Can be used with Trigger TeeJet assembly.





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William Garrigue Co., 9 S. Clinton St., Chicago Alan Porter Lee Associates, 19 South St., Morristown, N. J.

Project Construction Corp., 39 Broadway, N. Y. 6 Struthers Wells Titusville Corp., Warren, Pa. Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago

#### OIL MILL EQUIPMENT

V. D. Anderson Co., 1935 W. 96th St., Cleveland Bauer Bros. Co., Springfield, O. Consolidated Prods. Co., 15-21 Park Row, N. Y. 38 (Used) French Oil Mill Mach. Co., Piqua, O.

French Oil Mill Mach. Co., Piqua, O.
William Garrigue Co., 9 S. Clinton St., Chicago
Alan Porter Lee Associates, 19 South St., Morristown,
N. J.

Ernest Scott & Co., Fall River, Mass. Sprout Waldron & Co., Muncy, Pa. Struthers-Wells Co., Warren, Pa. Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago

#### OLIVE OIL (Commercial)

(see also Brokers and Dealers)

Irving R. Boody & Co., 120 Wall St., N. Y.
T. G. Cooper & Co., Cedar & Venango Sts., Phila.
Eastern Industries, Inc., Ridgefield, N. J.
W. R. Grace & Co., 7 Hanover Sq., N. Y.
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.
Leghorn Trading Co., 141 E. 44th St., N. Y.
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.
J. H. Redding Co., 17 Battery Pl., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Sergeant Chem. Co., 7 Dey St., N. Y.
Smith-Weihman Co., 15 Moore St., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.

#### OLIVE OIL FOOTS

T. G. Cooper & Co., Cedar & Venango Sts., Phila.

Eastern Industries, Inc., Ridgefield, N. J.
Leghorn Trading Corp., 141 E. 44th St., New York
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.
J. H. Redding Co., 17 Battery Pl., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Sergeant Chem. Co., 7 Dey St., N. Y.
Smith-Weihman Co., 15 Moore St., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.

#### OLIVE OIL SOAPS (see Castile Soaps, Textile Soaps)

#### OPTICAL BLEACHES

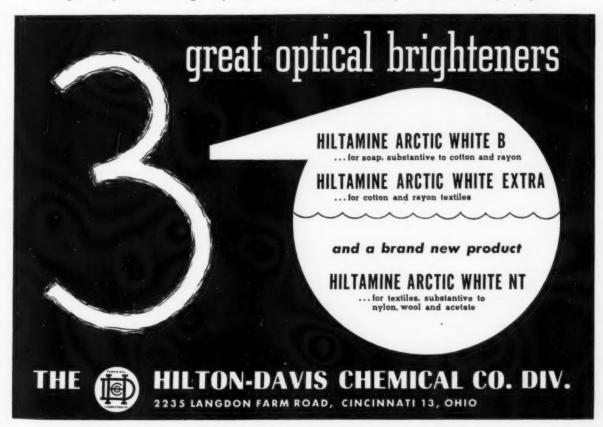
American Cyanamid Co., Calco Chem. Div., Bound Brook, N. J.
Antara Chemicals, Division of General Dyestuff Corp., 435 Hudson St., N. Y.
Geigy Co., 89 Barclay St., N. Y.
Hilton-Davis Chem. Co., Cincinnati 13
Koppers Co., Pittsburgh 19, Pa.
National Aniline Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y. 6

#### OXALIC ACID (see also Dealers)

Amer. Cyanamid Co., 30 Rockefeller Plaza, N. Y. E. I. du Pont de Nemours & Co., Inc., Wilmington, Del. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6 Innis, Speiden & Co., 117 Liberty St., N. Y.
Mallinckrodt Chemical Wks., St. Louis, Mo.
Merck & Co., Rahway, N. J.
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn.
Prentiss Drug & Chem. Co. 110 William St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Tamms Industries, Inc., 228 N. La Salle St., Chicago
Jos. Turner & Co., Ridgefield, N. J.

#### PACKAGING (for the Trade)

Ampion Corp., 4-88 47th Ave., Long Island City, N. Y. Analab Laboratories, 285 Franklin St., Boston 10 G. Barr & Co., 3601 S. Racine Ave., Chicago



#### PACKAGING FOR THE TRADE (Contd.)

Bonewitz Chemicals, Inc., Burlington, Ia.
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
Chem. Prods. Co. of N. J., 207 Astor St., Newark, N. J.
Chem. Prods. Co. of N. J., 207 Astor St., Newark, N. J.
Commercial Cleanser Co., 2924 Armitage Ave., Chicago
Connecticut Chem. Research Corp., Bridgeport, Conn.
Fluid Chem. Co., 860 Summer Ave., Newark, N. J.
Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City,
Mo.
R. tiesell, Inc., 200 W. Houston St., N. Y.
McKay-Davis Co., 851 Islington St., Toledo
Old Empire Mfg. Chemists, Mt. Prospect & Verona Ave.,
Newark, N. J.
J. L. Prescott Co., Passaic, N. J.
Private Brands, Inc., 300 S. 3rd St., Kansas City 18, Kan.
Product Packaging, Inc., 5715 Walworth Ave., Cleveland
Seaboard Mfg. Labs., Water & Mifflin Sts., Phila. 48
Sheffield Tube Corp., 170 Broad St., New London, Conn.
(tube filling service)
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland 13
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
Stevens Wiley Mfg. Co., Hancock & W. Berks Sts.,
Phila. 22
Theobald Industries, P. O. Box 72, Harrison, N. J.
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27
Van Pell Chem. & Supply Corp., 48 E. First St., N. Y.
Waverly Mfg. Co., 1825 Wylie St., Phila.

PACKAGING MACHINERY (see Cartoning Machy., Filling Machy., Weighing Equip., Wrapping Machy.)

#### PAILS, METAL (Shipping Containers)

American Can Co., 100 Park Ave., N. Y.
Central Can Co., 2415 W. 19th St., Chicago
Columbia Can Co., 59-27 54th St, Maspeth 78, N. Y.
Eastern Can Co., Keap St. & Kent Ave., Bklyn.
Fein's Tin Can Co., Bush Terminal, Brooklyn
Geuder, Paeschke & Frey Co., Milwaukee
Inland Steel Container Co., 6532 S. Menard Ave., Chicago
Jones & Laughlin Steel Corp., 401 Liberty Ave., Pittsburgh
National Can Co., 110 E. 42nd St., N. Y.
National Steel Barrel Co., 3860 E. 91st St., Cleveland
Pittsburgh Can Co., Fittsburgh, Pa.
Pressed Steel Tank Co., 5717 Greenfield Ave., Milwaukee
Rheem Mfg. Co., 4361 Firestone Blvd., South Gate, Cal.
Rochester Can Co., 88 Greenleaf St., Rochester 9, N. Y.
F. C. Thornton Co., 6712 Union Ave., Cleveland
John Trageser Steam Copper Works, Maspeth, L. I.
U. S. Steel Prods. Co., 30 Rockefeller Plaza, N. Y. 20
Vulcan Steel Container Co., 3315 N. 35 Ave., Birmingham, Ala.
Vulcan Stamping & Mfg. Co., Bellwood, Ill.
Wheeling Corrugating Co., Wheeling, W. Va.

#### PAILS (Wooden)

Beaver Mills, Keene, N. H. Eagle Woodenware Mfg. Co., Hamilton, O. Gambrinus Cooperage Works, Louisville Impervious Package Co., Keene, N. H. Menasha Woodenware Co., Menasha, Wis. Richmond Cedar Works, Richmond, Va.

#### PALM KERNEL OIL

(see also Brokers and Dealers)

Balfour Guthrie & Co., 67 Wall St., N. Y.
Irving R. Boody & Co., 120 Wall St., N. Y.
T. G. Cooper & Co., Cedar & Venango Sts., Phila. 34
Durkee Famous Foods, Inc., 2670 Elston Ave., Chicago
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave.,
N. Y. 17
Leghorn Trading Corp., 141 E. 44th St., N. Y.
Pacific Vegetable Oil Corup., 62 Townsend St.,
San Francisco, Calif.
Spencer Kellogg & Sons, Buffalo, N. Y.
J. H. Redding Co., 17 Battery Pl., N. Y.
Smith-Weihman Co., 15 Moore St., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.
Zimmerman Alderson Carr Co., 25 Broadway, N. Y.

#### PALM OIL

Armour & Co., 1355 W. 31 St., Chicago
Balfour Guthrie & Co., 67 Wall St., N. Y.
T. G. Cooper & Co., Cedar & Venango Sts., Phila.
E. F. Drew & Co., Wecoline Div., Boonton, N. J.
Eastern Industries, Ridgefield, N. J.
Greene Trading Co., 60 Wall St., N. Y. 5
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave.,
N. Y. 17
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.
Pacific Vegetable Oil Corp., 62 Townsend St.,
San Francisco
J. H. Redding Co., 17 Battery Pl., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Smith-Weihman Co., 15 Moore St., N. Y.
Stein, Hall & Co., 285 Madison Ave., N. Y.
Swift & Co., Chicago
Arthur C. Trask Co., 4103 S. La Salle St., Chicago
Welch, Holme & Clark Co., 439 West St., N. Y.
Zimmerman Alderson Carr Co., 25 Broadway, N. Y.

#### PALM OIL FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis 2, Minn. Armour & Co., 1355 W. 31 St., Chicago E. F. Drew & Co., 15 E. 26 St., N. Y. Emery Industries, 4300 Carew Tower, Cincinnati General Mills, Chem. Div., 400 2nd Ave., Minneapolis W. C. Hardesty Co., 41 E. 42 St., N. Y. Hummel Chemical Co., 90 West St., N. Y. 6 Swift & Co., Chicago Welch, Holme & Clark Co., 439 West St., N. Y. Woburn Chemical Corp., Harrison, N. J. G. S. Ziegler & Co., 99 Church St., N. Y. 17

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F. N. Burt Co., Batavia, N. Y.
Continental Can Co., 100 E. 42nd St., N. Y.
Individual Drinking Cup Co., Easton, Pa.
Sutherland Paper Co., Kalamazoo, Mich.
U. S. Envelope Co., Worcester 5, Mass.
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada

#### PAPER (Fancy Wrapping)

Aluminum Co. of America, Gulf Bldg., Pittsburgh A. M. Collins Mfg., 1518 Walnut St., Phila. Louis Dejonge & Co., 155—6th Ave., N. Y. Fox Paper Co., Lockland, Cincinnati, O. Hampden Glazed Paper & Card Co., Holyoke, Mass. Keller-Dorian Paper Co., 516 W. 34th St., N. Y. New England Card & Paper Co., Springfield, Mass. Marquette Lithograph Co., 730 N. Franklin St., Chicago Marvellum Co., Holyoke, Mass. Nashua Gummed & Coated Paper Co., Nashua, N. H. Richardson Co., Lockland, O. Geo. Schmitt & Co., 253 Maujer St., Brooklyn Strobridge Lithographing Co., Cincinnati Sylvania Industrial Corp., 122 E. 42nd St., N. Y. Tamm & Co., 61 E. 11th St., N. Y. Transcello Paper Co., Milwaukee, Wisc. U. S. Printing & Lithographing Co., Cincinnati, O. Chas. W. Williams & Co., Inc., 309 Lafayette St., N. Y.

#### PAPER TOWELS and TISSUES

A. P. W. Paper Co., Albany, N. Y.
Brown Co., Portland, Me.
Hoberg Paper & Fiber Co., Green Bay, Wisc.
Scott Paper Co., Chester, Pa.
Straubel Paper Co., Green Bay, Wisc.
U. S. Envelope Co., Fulton, N. Y.
U. S. Envelope Co., Lititz, Pa.
Victoria Paper Mills Co., Fulton, N. Y.
Wheeler Paper Co., 299 Madison Ave., N. Y.
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada

#### PARA BLOCKS (see Deodorizing Blocks)

#### PARADICHLOROBENZENE

Columbia-Southern Chem. Corp., 5th Ave. & Bellefield, Pittsburgh
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del. Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Koppers Co., Pittsburgh 19
Merck & Co., Rahway, N. J.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis Niagara Alkali Co., 60 E. 42nd St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
Standard Naphthalene Prods. Co., S. Kearny, N. J.

#### PARAFFIN

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Atlantic Refining Co., 260 S. Broad St., Philadelphia Candy & Co., 2515 W. 35th St., Chicago 32
Gulf Refining Co., Pittsburgh
Industrial Raw Materials Corp., 575 Madison Ave.
N. Y. 22
Innis, Speiden & Co., 117 Liberty St., N. Y.
International Wax Refining Corp., E. Hawthorne Ave.,
Valley Stream, N. Y.
Oil States Petroleum Co., 233 Broadway, N. Y.
Pennotex Oil Corp., 29 Broadway, N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Sherwood Refining Co., Englewood, N. J.
Sinclair Refining Co., 630—5th Ave., N. Y.
Standard Oil Co. (Calif.), 225 Bush St., San Francisco
Standard Oil Co. (Ind., 910 S. Michigan Ave., Chicago
Standard Oil Co. (N. J.), 26 Broadway, N. Y.
Standard Oil Co. (Ohio), Midland Bldg., Cleveland
F. W. Steadman Co., 59 Pearl St., N. Y.
Texas Co., 135 E. 42nd St., N. Y.
Warwick Wax Co., Inc., 10th St., & 44th Ave., Long
Island City, N. Y.
Wax & Rosin Prods., 42 Broadway, N. Y.

#### PARAFFIN OILS

Atlantic Refining Co., 260 S. Broad St., Philadelphia Gulf Refining Co., Pittsburgh
Industrial Raw Materials Corp., 575 Madison Ave., N. Y. 22
International Wax Ref. Corp., Valley Stream, N. Y. Oil States Pet. Co., 233 Broadway, N. Y. Pennsylvania Refining Co., Butler, Pa. Petroleum Specialties, Inc., 400 Madison Ave., N. Y. Sherwood Refining Co., Englewood, N. J. Sinclair Refining Co., 630—5th Ave., N. Y. Skelly Oil Co., Skelly Bildg., Kansas City, Mo. L. Sonneborn Sons, 300 4th Ave., N. Y. Standard Oil Co. (Calif.), 225 Bush St., San Francisco Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago Standard Oil Co. (Ohio), Midland Bildg., Cleveland F. W. Steadman Co., 59 Pearl St., N. Y. Warwick Wax Co., Inc., 10th St. & 44th Ave., Long Island City, N. Y.

PASTES (see Glues and Adhesives)

PATCHOULI OIL (see Essential Oils)

#### PEANUT OIL

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2
Darling & Co., 4201 S. Ashland Ave., Chicago 9
Eastern Industries, Inc., Ridgefield, N. J.
Falk & Co., Pittsburgh 30
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.
Spencer Kellogg & Sons, Buffalo, N. Y.
Leghorn Trading Co., 141 E. 44th St., N. Y.
Pacific Vegetable Oil Corp., 62 Townsend St.,
San Francisco
J. H. Redding, Inc., 17 Battery Place, N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Sergeant Chem. Co., 7 Dey St., N. Y.
Southern Cotton Oil Co., Produce Exchange, N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.



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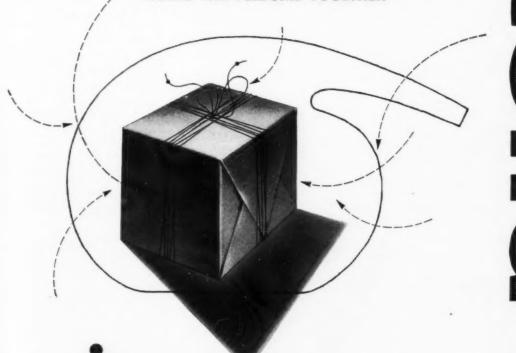
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Archer-Daniels-Midland Co., Minneapolis 2, Minn. Darling & Co., 4201 S. Ashland Ave., Chicago Jos. Turner & Co., Ridgefield, N. J. Vegetable Oil Prods. Co., Wilmington, Calif. Welch, Holme & Clark Co., 439 West St., N. Y. Woburn Chemical Corp., Harrison, N. J.

PEARL ASH (see Potassium Carbonate)

PENNROYAL OIL (see Essential Oils)

#### PENTACHLORPHENOL.

Chapman Chemical Co., Memphis 3, Tenn.

Dow Chemical Co., Midland, Mich.

E. I. du Pont de Nemours & Co., Wilmington

Monsanto Chem. Co., St. Louis

Neville Co., Pittsburgh 25

Reilly Tar & Chemical Corp., Merchants Bank Bldg.,

Indianapolis, Ind.

Wood Treating Chemicals Co., 5137 Southwest Ave., St.

Louis 10

#### PEPPERMINT OIL (see Essential Oils)

#### PERCOLATORS (for solvent extraction)

Brighton Copper Works, 2161 Kindel Ave., Cincinnati Arthur Colton Co., Detroit, Mich. Edge Moor Iron Wks., 30 Rockefeller Plaza, N. Y. Pfaudler Co., 89 East Ave., Rochester, N. Y. F. J. Stokes Machine Co., Philadelphia

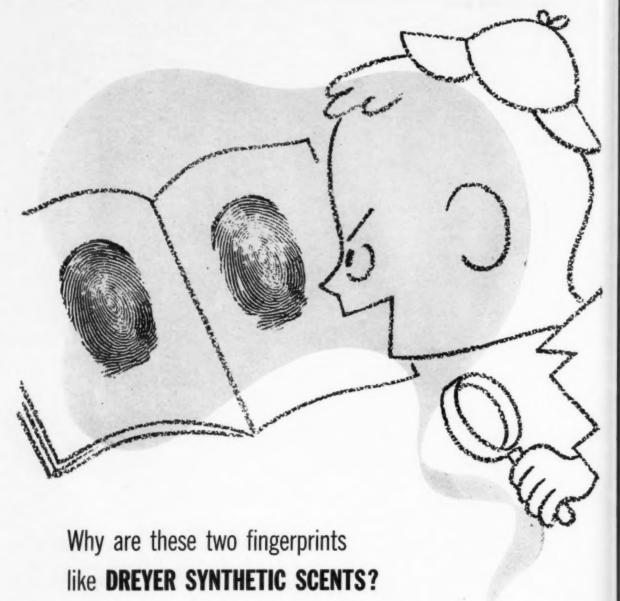
#### PERFUMING COMPOUNDS

Albert Albek, Inc., 3573 Hayden Ave., Culver City, Cal. Aromatic Products, Inc., 15 E. 30th St., N. Y. Berje Prods. Co., 349 West Broadway, N. Y. C. Charabot & Co., 132 Nassau St., N. Y. 38 Ph. Chaleyer, Inc., 160 E. 56th St., N. Y. Compagnic Parento, Croton-on-Hudson, N. Y.

Gerard J. Danco, Inc., 5 E. 19th St., N. Y. C. De Laire Aromatics, 180 Varick St., N. Y. Dodge & Olcott, Inc., 180 Varick St., N. Y. Dow Chemical Co., Bush Aromatics Div., 629 Grove St., Jersey City 2
P. R. Dreyer, Inc., 119 W. 19th St., N. Y. E. I. du Pont de Nemours & Co., Inc., Wilmington, Del. Felton Chemical Co., 603 Johnson Ave., Brooklyn, N. Y. Firmenich, Inc., 250 W. 18th St., N. Y. 10
Florasynth Laboratories, 1513 Olmstead Ave., Bronx Benj. French, Inc., 160 Fifth Ave., N. Y. Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y. Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y. Heine & Co., 54 Cliff St., N. Y.
D. W. Hutchinson & Co., 162 Front St., N. Y. Kay-Fries Chemicals, Inc., 180 Madison Ave., N. Y. Lautier Fils, 321 Fifth Ave., N. Y.
Samuel Klein, 4 Hanover Sq., N. Y. 14 Pierre Lemoine, 67 Cortlandt St., N. Y.
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y. A. Maschmeijer, Jr., Inc., 43 W. 16th St., N. Y.
N. Y. Aromatics Corp., High Bridge, N. J.
Newman Buslee Wolfe, 5800 Northwest Highway, Chicago
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y. Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J. Orbis Products Corp., 215 Pearl St., N. Y.
Perry Bros., Inc., 220 Flushing Ave., Brooklyn Polak's Frutal Wks., Middletown, N. Y.
Polak & Schwarz, Inc., 667 Washington St., N. Y. Polak & Schwarz, Inc., 667 Washington St., N. Y. Polak & Schwarz, Inc., 667 Washington St., N. Y. H. C. Ryland, Inc., 161 Water St., N. Y.
Jules Saman Labs., P. O. Box 446, Watertown, N. Y.



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119 WEST 19th STREET, NEW YORK 11, N. Y.



for Essential Oils, Aromatic Chemicals, Perfume Compounds

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#### PERFUME DISSEMINATORS

Chemical Service Co. of Baltimore, Howard & West Sts., Balt. 30
Connecticut Chem. Research Corp., Bridgeport 5, Conn. Ellis Davidson Co., 22 Reade St., N. Y.
Fuld Bros., 702 S. Wolfe St., Baltimore
Hysan Prods. Co., 932 W. 38th Place, Chicago
Keystone Scent Conditioner Corp., 315 N. 12th St., Phila.

7
Robinson Clay Prod. Co., 101 Park Ave., N. Y.
Scent-Flo. Dist. Co., 7227 Hamilton Ave., Pittsburgh 8,
Pa.
Star Porcelain Co., 33 Muirhead Ave., Trenton, N. J.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
Universal Electric Products, 2201 Regent St., Madison
5, Wis.
U. S. Sanitary Specialties Corp., 1003 S. California Blvd.,
Chicago 12

#### PETIT GRAIN OIL (see Essential Oils)

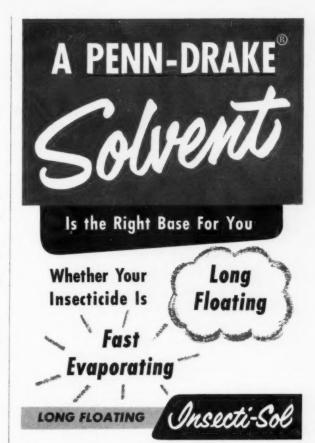
#### PETROLATUM (Petroleum Jelly)

Atlantic Refining Co., 260 S. Broad St., Philadelphia Chesebrough Mfg. Co., 17 State St., N. Y. Industrial Raw Materials Corp., 575 Madison Ave., N. Y. 22
Oil States Pet. Co., 253 Broadway, N. Y. 6
Pennotex Oil Corp., 29 Broadway, N. Y. 6
Pennsylvania Refining Co., Butler, Pa.
Petroleum Specialties, Inc., 400 Madison Ave., N. Y. Rosenthal Bercow Co., 25 E. 26th St., N. Y. Sherwood Refining Co., Englewood, N. J. Sinclair Refining Co., 630 Fifth Ave., N. Y. 10
Standard Oil Co. (Calif.), 225 Bush St., San Francisco Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago Standard Oil Co. (N. J.), 26 Broadway, N. Y. F. W. Steadman Co., 59 Pearl St., N. Y. Welch, Holme & Clark Co., 439 West St., N. Y.

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Atlantic Refining Co., 260 S. Broad St., Philadelphia
Beacon Oil Co., Everett, Mass.
Empire Oil Co., Oil City, Pa.
Gulf Oil Co., Gulf Bldg., Pittsburgh
Nopco Chemical Co., Harrison, N. J.
Oil Service Co., Warren, Pa.
Pennsylvania Refining Co., Butler, Pa.
Pennsylvania Refining Co., Englewood, N. J.
Sinclair Chemicals, Inc., 630 Fifth Ave., N. Y.
Skelly Oil Co., Skelly Bldg., Kansas City, Mo.
L. Sonneborn Sons, 300 4th Ave., N. Y. 10
Standard Oil Co. (Calif.), 225 Bush St., San Francisco
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago
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Texas Co., 135 E. 42nd St., N. Y.
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#### TYPICAL SPECIFICATIONS

A.P.J. Gravity
Specific Gravity at 60° F 0.775/0.785
Saybolt Viscosity at 100° F 30/31 sec.
Flash Point C.O.C. 170/180° F
Fire Point C.O.C. 180/190° F

Initial Boiling Point
Distillation End Point
Unsulfonatable Residue
Color

385/395° F 465/480° F 98% Water white

#### FAST EVAPORATING

1070-1053 753 INNIVERSARY Super-Sol

This highly refined hydrocarbon is ideal for use wherever fast drying or rapid evaporating is required. It is particularly recommended for mothicides and DDT residual sprays.

#### TYPICAL SPECIFICATIONS

A.P.J. Gravity
Specific Gravity at 60° F
Sayboll Viscosity at 100° F
Flash Point C.O.C.
Fire Point C.O.C.
Initial Boiling Point
Distillation End Point
Unsulfonatable Residue
Color

\$UPER-SOL 53/55 0.755/0.765 29.5/30.5 sec. 130/135 140/145 330/340 430/440 98% Water white Practically none

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Molor Wash
Finging Cleaner

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Closet Chemical
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Crude Carbolic Acids
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Animal Dips
Wood Preserving Oils
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Koppers Co., Koppers Bldg., Pittsburgh, Pa.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
Reilly Tar Chem. Corp., Merchant Bank Bldg., Indianapolis
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Tar Residuals, Inc., 420 Lexington Ave., N. Y.

#### PHENOL-COEFFICIENT DETERMINATIONS (see Laboratories, Testing)

PHENOL, NONYL (see Nonyl Phenol)

#### PHENYL ETHYL ALCOHOL (see Aromatic Chemicals)

#### pH INDICATORS

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#### PHOSPHORUS PASTE

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American Turpentine Farmers Association, Valdosta, Ga. American Turp. & Tar Co., 810 S. Broad St., New Orleans Godfrey L. Cabot, Inc., 77 Franklin St., Boston E. W. Colledge, General Sales Agent, Inc., P. O. Box 389, Jacksonville, Fla. Continental Turp. & Rosin Corp., Laurel, Miss. T. G. Cooper & Co., Cedar & Venango Sts., Phila. 34 Crosby Chemicals, Inc., De Ridder, La. Dixie Pine Prods. Co., Hattiesburg, Miss. Glidden Co., Naval Stores Div., Jacksonville, Fla. Gulf Naval Stores Supply Co., Whitney Bldg., New Orleans Hercules Powder Co., 961 Market St., Wilmington, Del. Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y. National Turp. Prods. Co., Gulf Point, Fla. Newport Industries, Inc., 230 Park Ave., N. Y. Phoenix Naval Stores Co., Gulfport, Miss. Southern Pine Chem. Co., Box 389, Jacksonville Taylor, Lowenstein & Co., Mobile, Ala. Welch, Holme & Clark Co., 349 West St., N. Y.

#### PINE OIL DISINFECTANTS (see Disinfectants, Pine Oil)

#### PINE NEEDLE OIL (see Essential Oils)

#### PINE SCRUB SOAPS (see also Floor Scrub Soaps)

Aid Soap Mfg. Co., Rochester, Pa.
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Ampion Corp., 4-88—47th Ave., L. I. City, N. Y.
Analab Labs., 285 Franklin St., Boston 10
Antiseptol Co., 5524 Northwest Highway, Chicago

Armour & Co., 1355 W. 31st St., Chicago Baird & McGuire, Inc., Holbrook, Mass. Banner Chem. Prods. Co., 9 Calumet St., Newark, N. J. Baum's Castorine Co., Rome, N. Y. Bilco Chem. Co., 607 DeGraw St., Bklyn. Boston Chemical Industries, 64 E. Brookline St., Boston Brilco Labs., 1553—63rd St., Bklyn. 19 Buckingham Wax Corp., Van Dam St. & Borden Ave., L. I. City. N. Y. Buckingham Wax Corp., Van Dam St. & Borden Ave., L. I. City, N. Y.
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
Chem. Service Co. of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Clifton Chemical Co., 62 William St., N. Y.
Crystal Soap & Chem. Co., 6300 State Rd., Phila. 35
Davies-Young Soap Co., Dayton, O.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Eagle Soap Corp., Huntington, Ind.
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good, Inc., 2116 Susquehanna Ave., Phila.
Haag Laboratories, Inc., 140th & Seeley Ave.,
Blue Island, Ill. James Good, Inc., 2116 Susquehanna Ave., Phila.

Haag Laboratories, Inc., 140th & Seeley Ave.,

Blue Island, Ill.

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Hewitt Soap Co., Dayton, O.

Higley Chemical Co., Dubuque, Iowa

R. M. Hollingshead Corp., Camden, N. J.

Hysan Products Co., 932 W. 38th Place, Chicago

Industrial Materials Co., 1017 McCall St., Houston, Tex.

Kearny Mfg. Co., Kearny, N. J.

Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.

Klix Chem. Co., 2460 Third St., San Francisco

Knoxall Corp., 1005 E. Sumner Ave., Indianapolis

Kranich Soap Co., 60 Richards St., Brooklyn

H. Krevit & Co., 73 Welton St., New Haven, Conn.

Masury Young Co., 76 Roland St., Boston 29

Midland Labs., Dubuque, Ia.

Murro Chem. Co., Portsmouth, Va.

National Chem. Laboratories, 825 Lombard St., Phila. 47

New Jersey Chem Co., 56 Park Ave., Lyndhurst, N. J.

Nopco Chem. Co., Harrison, N. J.

Oil-Kraft, Inc., 3330 Beekman St., Cincinnati

Peck's Prods. Co., 610 E. Clarence Ave., St. Louis

Puritan Chem. Co., 209 Peters St., S.W., Atlanta

Puritan Soap Co., 573 Lyell Ave., Rochester, N. Y.

Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.

Theo. B. Robertson Prods. Co., 700 W. Division St., Chicago

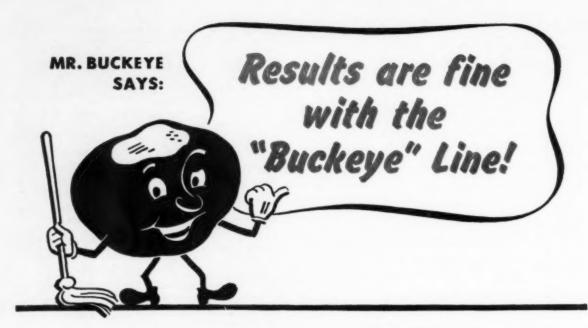
Rochester Germicide Co., 333 Hollenbeck St., Rochester 5, N. Y. Rochester Germicide Co., 333 Hollenbeck St., Rochester 5, N. Y.
Robert Rowe Co., 1977 Grand Trunk St., Montreal, Can.
I. Schneid, Inc., 916 Ashby St., Atlanta, Ga.
Shawmut Specialty Co., 91 Bickford St., Boston
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
John T. Stanley Co., Inc., 642 W. 30th St., N. Y.
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Tesco Chemicals, Inc., Atlanta 5, Ga.
Theobald Industries, P. O. Box 72, Harrison, N. J.
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Trio Chem. Wks., 341 Scholes St., Bklyn.
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Chicago 12 Rochester Germicide Co., 333 Hollenbeck St., Chicago 12 Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis
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Woodlets, Inc., Portland, Pa.
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PLODDERS (see Soap Machinery)

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G. Barr & Co., 3601 S. Racine Ave., Chicago
Baums Castorine Co., 200 Mathew St., Rome, N. Y.
Bilco Chemical Co., 607 DeGraw St., Bklyn.
Boston Chemical Industries, 64 E. Brookline St., Boston
Brilco Labs., 1553-63rd St., Bklyn, 19
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L. I. City, N. Y.
Candy & Co., 2515 W. 35th St., Chicago
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Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
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Eagle Soap Corp., Huntington, Ind.
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Fuld Bros., 702 S. Wolfe St., Baltimore
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Pioneer Mfg. Co., 3053 E. 87th St., Cleveland
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Theo. B. Robertson Prods. Co., 700 W. Division St.,
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Shell Chemical Corp., 50 W. 50th St., N. Y. 18
Shield-All Co., Coram, N. Y.
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
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Standard Oil Co. (Ind.), 910 S. Michigan Ave., Brooklyn
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Ultra Chemical Co., 25 No. Portland Ave., Brooklyn
Ultra Chemical Works, 2 Wood St., Paterson, N. J.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Sanitary Specialties Corp., 1003 S. California Ave.,
Chicago 12
Vestal, Inc., 4963 Manchester St., St. Louis 10
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James Good, Inc., 2116 Susquehanna Ave., Phila.
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Hysan Products Co., 932 W. 38th Pl., Chicago
M. & H. Laboratories, 2703-5 Archer Ave., Chicago
Midland Laboratories, Dubuque, Ia.
New Jersey Chemical Co., 56 Park Ave., Lyndhurst, N. J.
Old Empire Mfg. Chemists, Mt. Prospect & Verona Ave.,
Newark, N. J.
Perrow Chemical Co., Hurt, Va.
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
John C. Stalfort & Sons, 319 W. Pratt St., Baltimore
Tech Soap Mfg. Co., 7310 S. Chicago Ave., Chicago
Tesco Chemicals, Inc., Atlanta 5, Ga.
Trio Chem. Wks., 341 Scholes St., Bklyn.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y.
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Niagara Alkali Co., 60 E. 42nd St., N. Y.
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Welch, Holme & Clark Co., 439 West St., N. Y.
Westvaco Chem. Div., Food Ma.h., & Chem. Corp.,
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American Soap & Washoline Co., Conoes, N. Y.
Ampion Corp., 4-88 47th Ave., L. I. City, N. Y.
Analab Labs., 285 Frankiin St., Boston 10
Antiseptol Co., 5524 Northwest Highway, Chicago
Armour & Co., 1355 W. 31st St., Chicago
Remour & Co., 1355 W. 3 St. Chicago Banner Chemical Products Corp., 9 Calumet St., Newark, N. J. N. J. Baums Castorine Co., 200 Mathew St., Rome, N. Y. Boston Chemical Industries, 64 E. Brookline St., Boston Brilco Laboratories, 1553 63 St., Bklyn. 19 Buckingham Wax Co., 51-03 Van D.m St., L. I. City, Chemical Service Co., Baltimore Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago Clifton Chemical Co., 62 William St., N. Y.

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Creco Co., Creco Bldg., L. I. City, N. Y.
Crystal Soap & Chem. Co., 6300 State Rd., Phila. 35 Davies Young Soap Co., Dayton, Ohio Duveen Soap Corp., 36-14 35 St., Long Island City 6, N. Y.

Eagle Soap Corp., Huntington, Ind.
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Essential Chemicals, 2200 N. 32nd St., Milwaukee 8
Fine Organics, Inc., 211 E. 19th St., N. Y. 3
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good, Inc., 2116 Susquehanna Ave., Phila.
Haag Laboratories, Inc., 140th & Seeley Ave.,
Blue Island III. Haag Laboratories, Inc., 140th & Seeley Ave., Blue Island, Ill.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia Hewitt Soap Co., Dayton, O.
Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hysan Products Co., 932 W. 38th Place, Chicago
Industrial Materials Co., 1017 McCall St., Houston, Tex.
J. Chemical Works, 437 11th Ave., N. Y.
Kranich Soap Co., 54 Richards St., Brooklyn
Laurel Soap Mfg. Co., Tioga & Almond Sts., Philadelphia
Long Island Soap Co., Meeker Ave. & Bridgewater St.,
Brooklyn Brooklyn

Los Angeles Soap Co., Los Angeles, Calif.

M. & H. Laboratories, 2705 Archer Ave., Chicago
Midland Labs., Dubuque, Ia.
Mione Mfg Co., Collingdale, Pa.
National Chem. Laboratories, 825 Lombard St., Phila. 47
National Milling & Chem. Co., 4601 Nixon St., Phila. 27
National Soap Co., 357 South 25th St., Tacoma, Wash.
Newell Gutradt Co., 350 Fremont St., San Francisco
North Coast Chem. & Soap Wks., Seattle, Wash.
N. Y. Soap Co., 258 Third St., Brooklyn
Oil-Kraft, Inc., 3330 Beekman St., Cincinnati
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Piatt & Smillie Chemicals, 2329 Pine St., St. Louis 3
Puritan Co., 573 Lyell Ave., Rochester, N. Y.
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago Brooklyn

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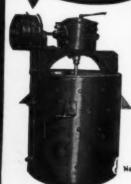
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Royal Soap & Chem. Co., Los Angeles 23
E. B. Snyder Laboratories, 2137 E. Harold St., Phila. 25
John T. Stanley Co., 642 W. 30th St., N. Y.
Standard Soap Co., Camden, N. J.
Swift & Co., Chicago 9
Tesco Chemicals, Inc., Atlanta 5, Ga.
Theobald Industries, P. O. Box 72, Harrison, N. J.
Trio Chem. Wks., 341 Scholes St., Bklyn.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
U. S. Sanitary Specialties Corp., 1003 S. California Ave., Chicago 12
G. H. Wood & Co., Toronto, Canada
Woodlets, Inc., Portland, Pa.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### POTASSIUM CARBONATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. J. T. Baker Chem. Co., Phillipsburg, N. J. T. G. Cooper, & Co., 2400 E. Venango St., Phila. 34 E. I. du Pont de Nemours & Co., Wilmington, Del. Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6 Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Merck & Co., Rahway, N. J.
Niagara Alkali Co., 60 E. 42nd St., N. Y.
Chas. Page & Co., 50 E. 42nd St., N. Y. 17
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
Jos. Turner & Co., Ridgefield, N. J.

#### POTASSIUM PERSULFATE

J. T. Baker Chem. Co., Phillipsburg, N. J. Buffalo Elec. Chem. Co., River Rd., Buffalo, N. Y.

General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6 Merck & Co., Rahway, N. J. Penn. Salt Mfg. Co., Widener Bldg., Phila. Jos. Turner & Co., Ridgefield, N. J.

#### POTASSIUM PHOSPHATES

General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6 Monsanto Chemical Co., St. Louis, Mo. Westvaco Chemical Div., Food Mach. & Chem. Corp., 405 Lexington Ave., N. Y. 17

#### POTASSIUM SILICATES

E. I. du Pont de Nemours & Co., Wilmington, Del. Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6 Philadelphia Quartz Co., Public Ledger Bldg., Independence Sq., Phila. 6 Welch, Holme & Clark Co., 439 West St., N. Y. Whittaker, Clark & Daniels, 260 W. Broadway, N. Y. 13

POURING SPOUTS (see Can Spouts, Closures)

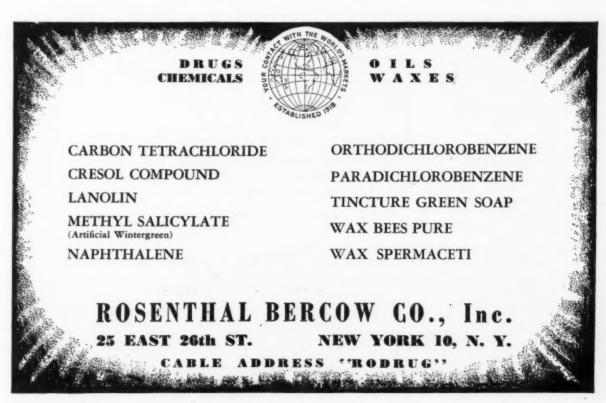
POWDERED SOAP (see Soap, Powdered) Do not confuse with Soap Powders)

#### PREMIUMS

Anchor Hocking Glass Corp., Lancaster, O. (glassware) Federal Tool Corp., 3600 W. Pratt Blvd., Chicago Goody Mfg. Co., 15 E. 22nd St., N. Y. (novelties) Hazel-Atlas Co., Wheeling, W. Va. (glassware) Holgate Co., Kane, Pa. (woodenware toys) Keystone Processed Prods. Co., 683 Broadway, N. Y.

#### PRESSES (Automatic Soap)

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"Pyrocide" Aerosol Mixes—Complete Mixes—Our tested recommended formulas, or formulas tailor-made to your specifications. You add propellant. Chilled and filtered to hold at —20°F. without precipitation. Special formulas to meet military and government specifications.

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"Pyrocide" Booster Concentrates — For low cost, Grade AA sprays. Combinations of pyrethrins, allethrin, or both, with synergists and other toxicants such as DDT, methoxychlor, lindane, etc. There are Booster Concentrates for specific purposes, such as industrial sprays, cattle sprays and mechanical aerosols.

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Synergist MGK "264" —The ideal synergist for pyrethrum and allethrin sprays. Superior with either pyrethrum or allethrin, but especially effective with allethrin. Greatly improves roach kill. "264" reduces costs—increases profits. Accepted for use by the United States Military Forces.

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Dry "Pyrocide" — A dry concentrate for use in making non-poisonous dusts effective against many pests attacking food crops. Contains 2.2% pyrethrins. Highly recommended for late application on vegetables. No poisonous residue.

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#### PRESSES (Foot and Hand Lever for Soap and Para Cakes)

Consolidated Prods. Co., 15-21 Park Row, N. Y. 38 (Used)
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Houchin Machinery Co., Hawthorne, N. J.
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used)
F. J. Stokes Mach. Co., Philadelphia, Pa.
Vickers Ltd., Westminster, London, SW 1, England

#### PRIVATE BRAND FORMULATIONS (see listings under individual headings)

PRIVATE LABEL PACKAGING, FILLING (see Packaging for the trade)

#### PROPELLANTS (see Aerosol Propellants)

#### PUMICE

California Industrial Minerals Co., Friant, Calif. Chas. B. Chrystal Co., 53 Park Pl., N. Y. Heckathorn & Co., Richmond, Calif. Larue-Axtell Pumice Co., Eustis, Nebr. Pacific Coast Pumice Co., Bishop, Calif. Pumice Corp. of America, Grants, N. M. Wm. R. Rogers, 80 Park St., Beverly, Mass. Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10 Tamms Industries, Inc., 228 N. La Salle St., Chicago Chas. A. Wagner Co., 813 Callowhill St., Phila. Whittaker, Clark & Daniels, 260 W. Bway., N. Y.

#### PUMPS

Alsop Engineering Corp., 103 Green St., Milldale, Conn. Blackmer Pump Co., Grand Rapids, Mich. Consolidated Prods. Co., 15-21 Park Row, N. Y. 38 (Used)
Ertel Engineering Corp., West Front St., Kingston, N. Y. Filpaco Industries, 2464 S. Michigan Ave., Chicago First Machy. Corp., 157 Hudson St., N. Y. (Used)
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Houchin Machinery Co., Hawthorne, N. J. Ingersoil-Rand Co., 11 Broadway, N. Y. Lobee Pump & Machine Co., Buffalo, N. Y. Manton Gaulin Mfg. Co., 44 Garden St., Everett, Mass. Oberdorfer Foundries, Inc., 5100 Thompson Rd., Syracuse, N. Y.
H. K. Porter Co., Oliver Bldg., Pittsburgh T. Shriver & Co., Harrison, N. J.
D. B. Smith & Co., 414 Main St., Utica, N. Y. F. J. Stokes Machine Co., Philadelphia, Pa. Viking Pump Co., Cedar Falls, Iowa Worthington Corp., 2 Park Ave., N. Y.

#### PYRETHRUM FLOWERS AND POWDER (Insect Powder)

Greene Trading Co., 60 Wall St., N. Y. (agents for foreign sellers)
Heckathorn & Co., Richmond, Calif.
McCormick & Co., Baltimore, Md.
McLaughlin, Gormley, King Co., 1715 Fifth St., S.E.,
Minneapolis
S. B. Penick & Co., 50 Church St., N. Y.
John Powell & Co., 1 Park Ave., N. Y.
Prentiss Drug & Chem. Co., 110 William St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5

#### PYRETHRUM EXTRACT

Heckathorn & Co., Richmond, Calif. McCormick & Co., Baltimore



# Basic Materials and Concentrates

#### for Insecticide-Rodenticide-Herbicide Manufacturers

DDT
TOXAPHENE
BHC
CHLORDANE
LINDANE
ROTENONE
SABADILLA
PYRETHRUM & PYRIN
PIPERONYL BUTOXIDE
ALLETHRIN
ANTU
TEPP
PARATHION
ALDRIN
DILAN
MEPTACHLOR
2, 4-0, 5-T

#### DDT INSECTICIDES

Dust Concentrates — Wettable Powders — Emulsions — Oil Soluble Concentrates

#### CHLORINATED INSECTICIDES

BHC-Lindane, Chlordane, Toxaphene.
Dust Concentrates — Wettable Powders
— Emulsions — Oil Soluble Concentrates

#### RODENTICIDES

Antu-JP 50 M (50% DDT tracking powder)

#### ORGANIC WEED KILLERS

2, 4-D — Acid, Salts, Emulsion Concentrates. 2, 4, 5-T — Emulsion, Oil Soluble Concentrates

#### BOTANICALS

Pyrethrum — Rotenone — Sabadilla — Cube — Derris Powders — Emulsions — Oil Soluble Concentrates

#### ORGANIC INSECTICIDES

Parathion, TEPP
Allethrin, Aldrin, Dieldrin, Dilan, Heptachlor. Emulsion Concentrates, Dust Concentrates, Wettable Powders

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Custom made formulations—Grinding to meet specifications



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- Disinfectants, Quaternary
   Ammonium Compounds
- Emulsifying Agents
- Fatty Acid Esters
- Fireproofing Compounds
- Quaternary Ammonium Compounds
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- Sulfated and Sulfonated Fatty Alcohols
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- Textile Soaps
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S. B. Penick & Co., 50 Church St., N. Y.
John Powell & Co., 1 Park Ave., N. Y.
Prentiss Drug & Chem. Co., 110 William St., N. Y.
U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5

#### PYROPHYLLITE

Attapulgus Clay Co, 210 W. Washington Sq., Phila. Carolina Pyrophyllite Co., 10 E. 40th St., N. Y. Chas. B. Chrystal Co., 53 Park Pl., N. Y. Dicalite Div., 612 S. Flower St., Los Angeles, Calif. Kennedy Minerals Co., 2550 E. Olympic Blvd., Los Angeles, Cal. Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10 Tamms Industries, Inc., 229 N. LaSalle St., Chicago R. T. Vanderbilt Co., 230 Park Ave., N. Y. Whittaker, Clark & Daniels, 260 W. Bway., N. Y. Witco Chemical Co., 260 Madison Ave., N. Y.

#### QUATERNARY AMMONIUM COMPOUNDS

Alrose Chem. Co., Box 1294, Providence, R. I.
Antara Chemicals, Div. General Dyestuff Corp., 435
Hudson St., N. Y. 14
Armour & Co., 1355 W. 31st St., Chicago 9
J. T. Baker Chemical Co., Phillipsburg, N. J.
Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17
Commercial Solvents Corp., 260 Madison Ave., N. Y. 17
Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Emulsol Corp., 59 E. Madison St., Chicago
Fine Organics, 211 E. 19th St., N. Y. 3
Merck & Co., Rahway, N. J.
Miranol Chem. Co., 16 Melville Pl., Irvington, N. J.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
Nopco Chemical Co., Harrison, N. J.
Onyx Oil & Chem. Co., 186 Warren St., Jersey City 2,
N. J. N. J.
Oronite Chem. Co., 38 Sansome St., San Francisco
Penna. Salt Mfg. Co., Widener Bldg., Phila.
Rohm & Haas, 222 W. Washington Sq., Phila.
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18
Jacques Wolf & Co., Passaic, N. J.
Wyandotte Chemicals Corp., J. B. Ford Div.,
Wyandotte, Mich.

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A-M-R Chem. Co., 985 E. 35th St., Bklyn. 18 Barton Chem. Co., 3907 S. Langley Ave., Chicago California Spray-Chemical Corp., Richmond, Calif. Chem. Service Co. of Balto., Howard & West Sts., Balto. Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago Continental Chemiste Corp., 2068 W. Ogden Ave., Chicago 12 Continental Chemiste Corp., 2068 W. Ogden Ave., Chicago 12

Eagle Soap Corp., Huntington, Ind.

Elkay Products Co., 323 W. 16th St., N. Y.

Exterminating Materials Co., 555 W. 22nd St., N. Y.

Exterminating Materials Co., 555 W. 22nd St., N. Y.

Fuld Bros., 702 S. Wolfe St., Baltimore

Geigy Co., 89 Barclay St., N. Y.

Heckathorn & Co., Richmond, Calif.

Hysan Products Co., 932 W. 38th Place, Chicago

Idico Prods. Co., 1 W. 125th St., N. Y.

Innis, Speiden & Co., 117 Liberty St., N. Y.

Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.

Lethelin Products Co., Mt. Vernon, N. Y.

O. E. Linck Co., 51 James St., Montclair, N. J.

Monsanto Chem. Co., 1700 S. 2nd St., St. Louis

John Opitz, 50-14 39th St., Long Island City, N. Y.

S. B. Penick & Co., 50 Church St., N. Y. C.

Per-Mo Products Co., 1716 E. 36th St., Kansas City, Mo.

Pfaltz & Bauer, Inc., 350 Fifth Ave., N. Y.

Pittsburgh Agr. Chem. Co., 350 Fifth Ave., N. Y.

Prentiss Drug & Chem. Co., 110 William St., N. Y.

Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.

Quinn Drug & Chem. Co., Greenwood, Miss.

Sennewald Drug Co., 2721 Chouteau Ave., St. Louis

Thompson-Hayward Chem. Co., Kansas City 8, Mo.

Sur-Rid Prods. Co., 455 Paul Brown Bldg., St. Louis

Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C. Chicago 12

U. S. Sanitary Specialties Corp., 1003 S. California Ave., Chicago 12 Victory Chem. Co., 148 Fairmount Ave., Philadelphia York Chemical Co., 23 Dean St., Bklyn.

RAT POISONS (see Squills, Phosphorus Paste, Thallium

#### RED OIL (Oleic Acid)

(see also Brokers and Dealers)

Armour & Co., 1355 W. 31st St., Chicago
Arnold Hoffman & Co., 55 Canal St., Providence, R. I.
Capital City Prods. Co., Columbus 16, 0,
Celina Stearic Acid Co., Celina, Ohio
Century Stearic Acid Candle Works, 41 E. 42nd St., N. Y.
Darling & Co., 4201 S. Ashland Ave., Chicago
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Eastern Industries, Ridgefield, N. J.
Emery Industries, Inc., 4300 Carew Tower, Cincinnati
Falk & Co., Pittsburgh 30
General Mills, Inc., 400 2nd Ave. S., Minneapolis 7, Minn.
A. Gross & Co., 295 Madison Ave., N. Y.
W. C. Hardesty Co., 41 E. 42nd St., N. Y.
Procter & Gamble Co., Cincinnati
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
10
Swift & Co., Chicago
Theobald Industries, Kearny, N. J.
Arthur C. Trask Co., 4108 S. La Salle St., Chicago
Welch, Holme & Clark Co., 439 West St., N. Y.
Wilson-Martin Co., Snyder Ave. & Swanson St.,
Philadelphia
Wohurn Chem. Corn., Harrison, N. J. Philadelphia Woburn Chem. Corp., Harrison, N. J.

#### REFINING EQUIPMENT (Glycerine)

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William Garrigue & Co., 9 S. Clinton St., Chicago
Alan Porter Lee Associates, 19 South St., Morristown,
N. J. Lancaster Iron Works, 564 S. Prince St., Lancaster, Pa. Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)
Struthers-Wells Co., Warren, Pa.
Walter E. Simmons Co., Boston
Swenson Evaporator Co., Harvey, Ill.
Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago

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Dow-Corning Corp., Midland, Mich. General Electric Co., Pittsfield, Mass. Linde Air Prods. Co., 30 E. 42 St., N. Y. Plaskon Div., Libby-Owens-Ford Glass Co., Toledo, O.

#### RESINS, Synthetic

Alkydol Laboratories, Inc., 3242 S. 50th Ave., Cicero, Ill. American Cyanamid Co., 30 Rockefeller Plaza, N. Y. Atlas Powder Co., Wilmington, Dela. Bakelite Corp., 300 Madison Ave., N. Y. Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., Crosby Chemicals, Inc., De Ridder, La.

#### RESINS, SYNTHETIC (Contd.)

Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington
Durez Plastics & Chemicals, North Tonawanda, N. Y.
General Mills, Inc., 400 2nd Ave., Minneapolis 1
Hercules Powder Co., 961 Market St., Wilmington, Dela.
Koppers Co., Pittsburgh 19
Krumbhaar Chemicals, Inc., South Kearny, N. J.
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis
Neville Co., Pittsburgh, Pa.
Onyx Oil & Chemical Co., 190 Warren St., Jersey City 2,
N. J.
Pennsylvania Industrial Chemical Corp., Clairton, Pa.
Plaskon Div., Libbey-Owens-Ford Glass Co., Toledo
Reichhold Chemicals, Inc., International Bldg., N. Y. 20
Reilly Tar & Chem. Corp., Merchant Bank Bldg., Indianapolis
Rohm & Haas Co., Resinous Products Div., 222 W.
Washington Sq., Philadelphia
William H. Scheel, Inc., 38 Franklin St., Brooklyn
Schenectady Resins, 200 Congress St., Schenectady, N. Y.
Semet-Solvay Div., 40 Rector St., N. Y.
Shell Chemical Corp., 50 W. 50th St., N. Y. 20
U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5
Velsicol Corp., 330 E. Grand Ave., Chicago
Warwick Chemical Co., 1010 44th Ave., L. I. C., N. Y.

#### RESINS AND VARNISHES, NATURAL (see Gums)

#### RESPIRATORS

Davis Emergency Equipment Co., 55 Vandam Ave., New York Goggle Parts Co., 1466 W. 9th St., Cleveland 13 Mine Safety Appliances Co., Braddock and Thomas Sts., Pittsburgh Nasal Filter Co., 70 N. 5th St., Columbus, Ohio Pulmosan Safety Equipment Corp., 644 Pacific St., Bklyn. 17 Wilson Products Co., 2nd & Washington Sts., Reading, Pa.

#### RHODINOL (see Aromatic Chemicals)

#### ROACH PASTE

John Opitz, Inc., 50-14 39th St., L. I. City, N. Y. Sennewald Drug Co., 2721 Chouteau Ave., St. Louis

#### ROACH POWDERS (see Household Insecticides, Powder)

#### ROSIN

American Turp. Farmers Assn., Valdosta, Ga.
Antwerp Naval Stores Co., Savannah, Ga.
E. W. Colledge, General Sales Agent, P. O. Box 389, Jacksonville, Fla.
Continental Turp. & Rosin Corp., Laurel, Miss.
Crosby Chemicals, Inc., De Ridder, La.
Dixie Pine Prods. Co., Hattiesburg, Miss. (wood)
General Mills, Chemical Div., 400 2nd Ave.,
Minneapolis 1
Georgia Rosin Prods. Co., Brunswick, Ga.
Glidden Co., Naval Stores Div., P. O. Box 380,
Jacksonville, Fla.
Hercules Powder Co., 961 Market St., Wilmington, Del.
Industrial Chem. Sales Div., West Va. Pulp & Paper Co.,
230 Park Ave., N. Y.
Newport Industries, Inc., 230 Park Ave., N. Y.
Phoenix Naval Stores Co., Gulfport, Miss. (wood)
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Southern Pine Chem. Co., Box 389, Jacksonville
Taylor, Lowenstein & Co., Mobile, Ala.
Wax & Rosin Prods., 42 Broadway, N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.

#### ROSIN SOAPS (Saponified Rosins)

Armour & Co., 1355 W. 31st St., Chicago 9 Boston Chem. Industries, 64 E. Brookline St., Boston 18 Chem. Service Co. of Balto. Howard & West Sts., Balto. Crosby Chemicals, Inc., DeRidder, La. Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia Davies-Young Soap Co., Dayton 1, O.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8
James Good, Inc., 2116 E. Susquehanna Ave., Phila. Haskins Bros. & Co., 0maha
Hercules Powder Co., 961 Market St., Wilmington, Del. Hysan Prods. Co., 932 W. 38 Pl., Chicago 9
National Milling & Chem. Co., 4601 Nixon St., Phila. 27
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Quaker Chemical Prods. Co., Conshohocken, Pa.
Theo. B. Robertson Prods. Co., 700 W. Division St., Chicago
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Trio Chem. Wks., 341 Scholes St., Bklyn. 6
G. H. Wood & Co., Toronto, Canada
Woodlets, Inc., Portland, Pa.
Chas. W. Young & Co., 1247 N. 26th St., Philadelphia

#### RUG and UPHOLSTERY CLEANERS

Alrose Chem. Co., Box 1294, Providence, R. I.
American Alcolac Corp., 3440 Fairfield Rd., Balto.
Ampion Corp., 4-88—47th Ave., L. I. City, N. Y.
Analab Laboratories, 285 Franklin St., Boston 10
Antara Chemicals, Div. General Dyestuff Corp., 435
Hudson St., N. Y.
Armour & Co., 1355 W. 31 St., Chicago
Boston Chem. Industries, 64 E. Brookline St., Boston 18
Brilco Labs., 1553—63rd St., Bklyn. 19
Buckingham Wax Corp., aVn Dam St. & Borden Ave.,
L. I. City L. I. City
Candy & Co., 2515 W. 35th St., Chicago
Carlstadt Chem. Co., Carlstadt, N. J.
Chem. Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prod. Co., 3100 S. Throop St., Chicago 8
Clifton Chemical Co., 62 William St., N. Y.
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia
Davies-Young Soap Co., Dayton, O.
E. I. du Pont de Nemours & Co., Wilmington
Pagle Soap Corp., Huntington. Ind. L. I. City E. I. du Pont de Nemours & Co., Wilmington Eagle Soap Corp., Huntington, Ind. Essential Chem. Co., 2200 N. 32nd St., Milwaukee 8 Fine Organics, Inc., 211 E. 19th St., N. Y. 3 Fuld Bros., 702 S. Wolfe St., Baltimore Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City James Good, Inc., 2116 Susquehanna Ave., Phila. James Good, Inc., 2116 Susquehanna Ave., Phila. Haag Laboratories, Blue Island, Ill. Higley Chem. Co., Dubuque, Iowa Hysan Prods. Co., 932 W. 38th Place, Chicago Kearny Mfg. Co., Kearny, N. J. Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J. Kwik Products Co., 451 W. 28th St., N. Y. M & H Laboratories, 2705 Archer Ave., Chicago M. Michel & Co., 90 Broad St., N. Y. Midland Labs., Dubuque, Ia. Nopco Chem. Co., Harrison, N. J. Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2 Onyx Oil & Chem. Co., Warren & Morris Sts.,
Jersey City 2
Oronite Chemical Co. 38 Sansome St., San Francisco 4
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Per-Mo Products Co., 1716 E. 36th St., Kansas City, Mo.
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.
Theo. B. Robertson Prods. Co.
700 W. Division St., Chicago
I. Schneid, 916 Ashby St., Atlanta, Ga.
E. B. Snyder Labs., 2137 E. Harold St., Philadelphia
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
Tesco Chemicals, Inc., Atlanta 5, Ga.
Theobald Industries. P. O. Box 72. Harrison, N. J. Tesco Chemicals, Inc., Atlanta 5, Ga.
Theobald Industries, P. O. Box 72, Harrison, N. J.
Trio Chem. Wks., 341 Scholes St., Bklyn.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Sanitary Specialties Corp., 1003 S. California Ave.,
Chicago 12 James Varley & Sons, 1200 Switzer Ave., St. Louis Washine-National Sands, Inc., 37-02 Northern Blvd., Long Island City
G. H. Wood & Co., Toronto, Ont., Canada
Woodlets, Inc., Portland, Pa.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

Zeen Chemical Co., 2000 Elm St., Cleveland 13

#### SADDLE SOAP

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Armour & Co., 1355 W. 31st St., Chicago
Asco Chemical Co., 641 Lexington Ave., Brooklyn
Blum's Castorine Co., Rome, N. Y.
Chem. Service Co. of Balto., Howard & West Sts., Balto.
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia
Davies-Young Soap Co., Dayton, O.
James Good, Inc., 2116 Susquehanna Ave., Phila.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia
R. M. Hollingshead Corp., Camden, N. J.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Newell Gutradt Co., 350 Fremont St., San Francisco
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Rome Soap Mfg. Co., Rome, N. Y.
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
John T. Stanley Co., 642 W. 30th St., N. Y.
Windsor Wax Co., 611 Newark St., Hoboken, N. J.
G. H. Wood & Co., Toronto, Ont., Canada
Woodlets, Inc., Portland, Pa.

#### SAL SODA

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. Church & Dwight Co., 70 Pine St., N. Y. Columbia-Southern Corp., 5th Ave. & Bellefield, Pittsburgh
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14
E. I. du Pont de Nemours & Co., Wilmington, Del. Innis, Speiden & Co., 117 Liberty St., N. Y. Mathieson Chemical Corp., Baltimore 3
Rosenthal Bercow Co., 25 E. 26th St., N. Y. Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Welch, Holme & Clark Co., 439 West St., N. Y.

#### SALT (Common Salt)

(see also Dealers)

Columbia-Southern Chem. Corp., 5th Ave. & Bellefield, Pittsburgh
Dow Chemical Co., Midland, Mich.
International Salt Co., 475 Fifth Ave., N. Y.
LeRoy Salt Co., LeRoy, N. Y.
Michigan Chem. Corp., St. Louis, Mich.
Myles Salt Co., 1007 Camp St., New Orleans, La.
Penna. Salt Mfg. Co., Widener Bldg., Phila.
Pomeroy Salt Co., Pomeroy, Ohio
Remington Salt Co., Ithaca, N. Y.
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Welch, Holme & Clark Co., 439 West St., N. Y.

#### SALT WATER SOAP (Marine Soaps)

Aid Soap Mfg. Co., Rochester, Pa.
Antiseptol Co.. 5524 Northwest Highway, Chicago
Armour Soap Wks., 1355 W. 31st St., Chicago
Chicago Sanitary Prods. Co., 3100 S. Throop St.,
Chicago 8
J. Eavenson & Sons. Camden. N. J.
Duveen Soap Corp., 36-14 35 St., Long Island City 6,
N. Y.
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8
Hewitt Soap Co., Dayton, O.
Kamen Soap Products Co., 233 Broadway, N. Y. C.
Kearny Mfg. Co., Kearny, N. J.
Los Angeles Soap Co., Los Angeles
Miranol Chemical Co., 16 Melville Pl., Irvington, N. J.
Newell-Gutradt Co., 350 Fremont St., San Francisco
Onyx Oil & Chem. Co., 186 Warren St., Jersey City 2
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Procter & Gamble Dist. Co., Cincinnati, O.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Theobald Industries, P. O. Box 72, Harrison, N. J.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### SAND URNS

Atlantic Stamping Co., Rochester, N. Y.
Atlas Prods. Co., 3825 S. Racine Ave., Chicago
Compco Corp., 2251 W. St. Paul Ave., Chicago 47
Ex-Cell Prods. Corp., 2037 W. Churchill St., Chicago
Franklin Metal Prods. Co., 1500-02 S. Wabash Ave.,
Chicago
F. H. Lawson Co., 800 Evans St., Cincinnati 4, O.
Rochester Can Co., 88 Greenleaf St., Rochester 9, N. Y.

SANITIZERS (see Disinfectants, Quaternary; also Detergents, Antiseptic)

SCALES (see Weighing Equipment)

#### SCOURING POWDERS

Aid Soap Mfg. Co., Rochester, Pa.
American Soap & Washoline Co., Cohoes, N. Y.
Ampion Corp., 4-88 47th Ave., Long Island City, N. Y.
Armour & Co., 1355 W. 31st St., Chicago
B. T. Babbitt, Inc., 386—4th Ave., N. Y. 16
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Colgate-Palmolive-Peet Co., Jersey City, N. J.
Columbia-Southern Chem. Corp., Pittsburgh
Crystal Soap & Chem. Co., 6300 State Rd., Phila.
Cudahy Packing Co., 221 N. La Salle St., Chicago
Du Bois Soap Co., Cincinnati O.
Eagle Soap Corp., Huntington, Ind.
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8
Fuld Bros., 702 S. Wolfe St., Baltimore
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
Higley Chem. Co., Dubuque, Iowa
Hunnewell Soap Co., 114 W. 2 St., Cincinnati
Hysan Prods., 932 W. 38th Place, Chicago
Kearny Mfg. Co., Kearny, N. J.
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Los Angeles Soap Co., 617 E. First St., Los Angeles
Midland Labs., Dubuque, Ia.
Murro Chemical Co., Portsmouth, Va.
National Milling & Chem. Co., 4601 Nixon St., Phila. 24
Newell Gutradt Co., 350 Fremont St., San Francisco
Pacific Chem. Co., 1412 N. Main St., Los Angeles
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Penna. Sal: Mfg. Co., Widener Bldg., Philadelphia
Port Huron Detergent Co., Port Huron, Mich.
Procter & Gamble Dist. Co., Cincinnati
Puritan Chem. Co., 209 Peters St., S.W., Atlanta
Theo. B. Robertson Prods. Co.,
700 W. Division St., Chicago
S. & S. Soap Co., 815 E. 135 St., N. Y. 54
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
John T. Stanley Co., 642 W. 30th St., N. Y.
Stevens Soap Corp., 200 Sullivan St., Brooklyn
Swift & Co., Chicago
Tesco Chemicals, Inc., Atlanta 5, Ga.
Theobald Industries, P. O. Box 72, Harrison, N. J.
U. S. Sanitary Specialties Corp., 1003 S. California Blvd.,
Chicago 12
Virginia-Carolina Chem. Corp., Richmond 8, Va.
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
G. H. Wood & Co., Toron

#### SCOURING SOAPS (Bars)

Aid Soap Mfg. Co., Rochester, Pa.
American Soap & Washoline Co., Cohoes, N. Y.
Armour Soap Works, 1355 W. 31st St., Chicago
Baum's Castorine Co., Rome, N. Y.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Cudahy Packing Co., 221 N. La Salle St., Chicago
James Good, Inc., 2116 E. Susquehanna Ave., Philadelphia
Hewitt Soap Co., Dayton, O.
Hunnewell Soap Co., 114 W. 2 St., Cincinnati
Kearny Mfg. Co., Kearny, N. J.



FRAMINGHAM, MASSACHUSETTS

Warehouse Stocks:

George Mann & Co., Inc. — Providence, R. I. Griffin Chemical Co. — San Francisco — Los Angeles Siegel Chemical Co. — Brooklyn, N. Y.

Wasatch Chemical Co. -- Salt Lake City Kraft Chemical Co. — Chicago C. S. Tanner Co. — Charlotte, N. C. Barada & Page, Inc. — Dallas — Houston — New Orleans — Oklahoma City — St. Louis — Tulsa — Wichita

#### SCOURING SOAPS (Bars) (Contd.)

Los Angeles Soap Co., Los Angeles
National Soap Co., P. O. Box 1631, Tacoma, Wash.
Newell Gutradt Co., 350 Fremont St., San Francisco
Peck's Products Co., 610 E. Clarence Ave., St. Louis
Port Huron Detergent Co., Port Huron, Mich.
Procter & Gamble Dist. Co., Cincinnati, O. Procter & Gamble Dist. Co., Cincinnati, O.
Theo. B. Robertson Prods. Co.,
700 W. Division St., Chicago
Schmidt Soap Products Co., 236 W. North Ave., Chicago
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Warren Soap Mfg. Co., 51 Waverly St.,
Cambridge, Mass.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago
Chas. W. Young & Co., 1247 N. 26th St., Phila.

#### SCREENS (Screening and Sifting Equipment)

Consolidated Prods. Co., 15-21 Park Row, N. Y. 38 (Used)
B. F. Gump Co., 1338 S. Cicero Ave., Chicago
J. H. Day Co., 1144 Harrison Ave., Cincinnati
J. M. Lehmann Co., 566 New York Ave., Lynchurst, N. J.
Ludlow-Sayer Wire Co., St. Louis, Mo.
Newman Tallow & Soap Machy. Co., 1051 W. 35 St., Chicago (Used)
Orville Simpson Co., 1230 Knowlton St., Cincinnati
Read-Standard Corp., York, Pa.
Simplicity Engineering Co., Durand, Mich.
Sprout, Waldron & Co., Muncy, Pa.
Stedman's Fdy. & Machine Works, Aurora, Ind. Stephens-Adamson Mfg. Co., Aurora, Ill. Sturtevant Mill Co., Boston, Mass. W. S. Taylor Co., Cleveland, O. Troy Engine & Mach. Co., Troy, Pa. Wickwire Spencer Steel Co., 500—5th Ave., N. Y.

#### SCRUBBING SOAPS, LIQUID (see Floor Scrub Soaps)

#### SEALERS, FLOOR

Ampion Corp., 47-02 - 5th St., Long Island City, N. Y. American Floor Surfacing Mach. Co., 518 S. St. Clair American Floor Surfacing Mach. Co., 518 S. St. Clair St., Toledo, O. Analab Laboratories, 285 Franklin St., Boston 10 Candy & Co., 2515 W. 35th St., Chicago Chemical Service Co., Howard & West Sts., Baltimore Chicago Sanitary Prods. Co., 3100 Throop St., Chicago Clifton Chemical Co., 62 William St., N. Y. Davies-Young Soap Co., Dayton, O. Eagle Soap Corp., Huntington, Ind. Federal Varnish Division, S. Ashland Ave. at 29th St., Chicago Chicago Chicago
Franklin Research Co., 5134 Lancaster Ave., Phila. 31
Fuld Bros., 702 S. Wolfe St., Baltimore
Hysan Prods. Co., 932 W. 38 Pl., Chicago 9
McDougal-Butler Co., 2929 Main St., Buffalo 14
M. & H. Laboratories, 2703 Archer Ave., Chicago
Peck's Products Co., 610 Clarence Ave., St. Louis 15
Rex-Cleanwall Corp., Brazil, Ind.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y.
T. F. Washburn Co., 2244 Elston Av., Chicago

#### SEALING MACHINERY (Bags)

Bagpak, Inc., 220 E. 42nd St., N. Y. 17 Consolidated Packaging, 1400 West Ave., Buffalo 13, N. Y. Consolidated Prods. Co., 15 Park Row, N. Y. 38 (Used) B. F. Gump Co., 1338 S. Cicero Ave., Chicago New Jersey Machine Corp., Hoboken, N. J. Newman Tallow & Soap Machy. Co., 1051 W. 35 St., Chicago (Used)
St. Regis Paper Co., 230 Park Ave., N. Y.
Standard-Knapp Div., Portland, Conn.
Stokes & Smith Co., 4915 Summerdale Ave., Philadelphia
Weigh Right Automatic Scale Co., Joliet, Ill.

#### SEALING MACHINERY (Cartons)

A-B-C Packaging Machy. Corp., Quincy, Ill. Automatic Scale Co., Box 896, Joliet, Ill.

Burt Machine Co., 401 E. Oliver St., Baltimore Chisholm-Ryder Co. of Pa., Hanover, Pa. Consolidated Prods. Co., 15 Park Row, N. Y. 38 (Used) J. L. Ferguson Co., Joliet, Ill. First Machy. Corp., 157 Hudson St., N. Y. (Used) Hornney & Co., 420 Lexington Ave., N. Y. Houchin Machinery Co., Hawthorne, N. J. Johnson Automatic Sealer Co., Battle Creek, Mich. R. A. Jones & Co., Covington, Ky. New Jersey Machine Corp., Hoboken, N. J. Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used) Newman Tailow & Soap Machy. Co., 1051 w. 35th St., Chicago (Used)
Perl Mach. Mfg. Co., 68 Jay St., Bklyn. 1, N. Y. (Tubes)
Pneumatic Scale Corp., North Quincy, Mass.
F. B. Redington Co., 112 S. Sangamon St., Chicago
Standard-Knapp Div., Portland, Conn.
Stokes & Smith Co., 4915 Summerdale Ave., Philadelphia Triangle Package Machinery Co., 6643 W. Diversey Blvd., Chicago Van Buren Mach. Co., 730 Grand St., Bklyn. 11 Weigh Right Automatic Scale Co., Joliet, Ill.

#### SEQUESTERING AGENTS

Alrose Chem. Co., Box 1294, Providence, R. I.
Antara Chemicals, Div. General Dyestuff Corp.
435 Hudson St., N. Y. 14
Atlas Powder Co., Wilmington, Del.
Bersworth Chemical Co., Framingham, Mass.
Blockson Chem. Co., Joliet, Ill.
Carbide & Carbon Chemicals, 30 E. 42nd St., N. Y. 17
Griffin Chem. Co., 1000 16th St., San Francisco
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn.
Pittsburgh Agricultural Chem. Co., 350 Fifth Ave.,
N. Y. 1 N. Y. 1

Quaker Chem. Prods. Co., Conshohocken. Pa.

Refined Prods. Corp., Lyndhurst, N. J.

Rumford Co., Rumford 16. R. I.

Solvay Process Div., Allied Chemical & Dye Corp., 61

Broadway, N. Y.

Welch, Holme & Clark Co., 439 West St., N. Y. 14 Westvaco Chem. Div., Food Machy. & Chem. Corp., 415 Lexington Ave., N. Y. 17 Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

#### SESQUICARBONATE OF SODA (for Bath Salts, etc.),

(see Sodium Sesquicarbonate)

#### SHAMPOO BASE and LIQUID (SOAP BASE)

American Alcolac Corp., 3440 Fairfield Rd., Balto.
Ampion Corp., 4-88 47th Ave., L. I. City, N. Y.
Antara Chemicals, Div. Gen. Dyestuff Corp.,
435 Hudson St., N. Y.
Antiseptol Co., 5524 Northwest Highway, Chicago
Armour & Co., 1355 W. 31st St., Chicago
Atlantic Refining Co., 260 S. Broad St., Phila.
Buckingham Wax Co., Van Dam St. & Borden Ave.,
L. I. City, N. Y.
Chem. Service Co. of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Clifton Chemical Co., 62 William St., N. Y.
Davies-Young Soap Co., Dayton, O.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
E. I. du Pont de Nemours & Co., Wilmington
Eagle Soap Corp., Huntington, Ind.
Fine Organics, Inc., 211 E. 19th St., N. Y. 3
Fuld Bros. 702 S. Wolfe St., Baltimore
James Good, Inc., 2116 Susquehanna Ave., Phila.
Haag Laboratories, Inc., 140th & Seeley Ave., Blue
Island, Ill. Haag Laboratories, Inc., 14901 & Sector Island, Ill.
R. M. Hollingshead Corp., Camden, N. J.
Hewitt Soap Co., Dayton, O.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Kranich Soap Co., 60 Richards St., Brooklyn
M. Michel & Co., 90 Broad St., N. Y.
Miranol Chem. Co., 16 Melville Pl., Irvington, N. J.
Old Empire Mfg. Chemists, Mt. Prospect & Verona Ave.,
Newark, N. J. Newark, N. J.
Onyx Oil & Chem. Co., 186 Warren St., Jersey City 2
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Theo. B. Robertson Prods. Co., 700 W. Division St., Chicago



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Refined Wax-free

#### **VAC-DRY Shellac**

- HIGHER GLOSS
- MUCH LIGHTER COLOR
- LOW ACID VALUE
- KEEPS LONGER
- ANTI-SLIP
- SELF-LEVELING
- LONGER WEAR

#### WILLIAM ZINSSER AND CO., INC.

Self-polishing floor polishes with high shellac content are setting new sales records because shellac imparts higher gloss, harder surface film and excellent anti-slip properties.

No wax formulation of high shellac content, of course, can be any better than the wax-free bleached shellac from which it is made. If you have not made comparative tests lately, don't fail to try Zinsser's Refined Vac-Dry-a superior wax-free bleached shellac.

Refined Vac-Dry gives higher gloss, longer wear and better anti-slip and self-leveling properties. What's more, since Refined Vac-Dry is extremely light in color, it gives a lighter coloried wax film. And because of its exceptionally low acid value, it requires less alkali to go into solution, which means greater water resistance. It is readily soluble and unusually stable in aqueous solutions.

The superiority of Refined Wax-Free Vac-Dry is the result of bleaching only the best and most suitable Orange Lacs combined with the experience William Zinsser & Co. has gained in 103 years of bleaching shellac. For further information, or for generous testing samples, write us on your company letterhead.

us on your company letterhead.



#### SHAMPOO BASE (Contd.)

Trio Chem. Wks., 341 Scholes St., Bklyn.
Schmidt Soap Products Co., 236 W. North Ave., Chicago E. B. Snyder Labs., 213 E. Harold St., Phila. 25
John T. Stanley Co., 624 W. 30th St., N. Y.
Stepan Chem. Co., 3250 S. Kedzie Ave., Chicago 23
Swift & Co., Chicago 9
Tesco Chemicals, Inc., Atlanta 5, Ga.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Industrial Chemicals, 120 Broadway, N. Y.
U. S. Sanitary Specialties Corp., 1003 S. California Ave.,
Chicago 12
Van Dyk & Co., Belleville 9, N. J.
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
Warwick Chemical Co., 10-10 44th Ave., L. I. C., N. Y.
G. H. Wood & Co., Toronto, Ont., Canada
Woodlets, Inc., Portland, Pa.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago
Chas. W. Young & Co., 1247 N. 26th St., Phila.

#### SHAMPOOS, POWDER AND CAKE

Arrow Laboratories, 236 W. North Ave., Chicago Chicago Sanitary Prods., Co., 3100 S. Throop St., Chicago Davies-Young Soap Co., Dayton, O. Emulsol Corp., 59 E. Madison St., Chicago Hewitt Soap Co., 333 Linden Ave., Dayton, O. Hysan Prods. Co., 932 W. 38 Pl., Chicago 9 Kranich Soap Co., 60 Richards St., Brooklyn Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J. M. Michel & Co., 90 Broad St., N. Y. 4 Newell Gutradt Co., 350 Fremont St., San Francisco North Coast Chem. & Soap Wks., Seattle, Wash. Peck's Prods. Co., 610 E. Clarence Ave., St. Louis Piatt & Smillie Chemicals, 2329 Pine St., St. Louis 3 Schmidt Soap Products Co., 236 W. North Ave., Chicago Swift & Co., Chicago 9 Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass. Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### SHAMPOOS, SOAPLESS

Alrose Chem. Co., Box 1294, Providence, R. I.
Analab Labs., 285 Franklin St., Boston 10
Atlantic Refining Co., 260 S. Broad St., Phila.
G. Barr & Co., 3601 S. Racine Ave., Chicago
Boston Chemical Industries, 64 E. Brookline St., Boston
Buckingham Wax Co., 51-03 Van Dam St., L. I. C., N. Y.
Carlstadt Chem. Co., Carlstadt, N. J.
Chem. Service Co. of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St.,
Chicago S
Davies-Young Soap Co., Dayton, O.
Emulsol Corp., 59 E. Madison St., Chicago
Essential Chems. Co., 2200 N. 32 St., Milwaukee 8
Fuld Bros., 702 S. Wolfe St., Baltimore
Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Kearny Mfg. Co., Kearny, N. J.
Knoxall Corp., 1005 E. Sumner Ave., Indianapolis, Ind.
Los Angeles Soap Co., 617 E. First St., Los Angeles
Maywood Chemical Wks., Maywood, N. J.
M. Michel & Co., 90 Broad St., N. Y.
Miranol Chemical Co., 16 Melville Pl., Irvington, N. J.
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis
Nopco Chem. Co., Harrison, N. J.
Old Empire Mfg. Chemists, Mt. Prospect & Verona Ave.,
Newark, N. J.
Onyx Oil & Chemical Co., 186 Warren St., Jersey City 2
Oronite Chemical Co., 38 Sansome St., San Francisco 4
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Sherwood Refining Co., Englewood, N. J.

E. B. Snyder Labs., 2137 E. Harold St., Philadelphia Stepan Chem. Co., 3250 S. Kedzie Ave., Chicago 23 Theobald Industries, P. O. Box 72, Harrison, N. J. Ultra Chem. Wks., 2 Wood St., Paterson, N. J. U. S. Sanitary Spec. Corp., 1003 S. California Ave., Chicago 12 Verona Chem. Co., 26 Verona Ave., Newark, N. J.

#### SHAVING CREAM (Soap and Brushless)

Ampion Corp., 4-8 47th Ave., Long Island City, N. Y. Analab Labs., 285 Franklin St., Boston 10 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Davies-Young Soap Co., Dayton 1, O. Eagle Soap Corp., Huntington, Ind. Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J. Old Empire Mfg. Chemists, Mt. Prospect & Verona Ave., Newark, N. J.
Schmidt Soap Products Co., 236 W. North Ave., Chicago John T. Stanley Co., 642 W. 30th St., N. Y. Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### SHAVING CREAM BASE

Ampion Corp., 4-48 47th Ave., Long Island City, N. Y. Antara Chemicals, Div., General Dyestuff Corp., 435 Hudson St., N. Y. Atlas Powder Co., Wilmington, Dela. E. F. Drew & Co., 15 E. 26th St., N. Y. 10 E. I. du Pont de Nemours & Co., Wilmington W. C. Hardesty Co., 41 E. 42nd St., N. Y. 17 Miranol Chemical Co., Irvington, N. J. Old Empire Mfg. Chemists, Mt. Prospect & Verona Ave., Newark, N. J. Refined Prods. Corp., Lyndhurst, N. J. Rebinson Wagner Co., 110 E. 42nd St., N. Y. Schmidt Soap Products Co., 236 W. North Ave., Chicago U. S. Industrial Chems., Inc., 120 Broadway, N. Y. 5 Van Dyk & Co., Belleville 9, N. J. Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### SHAVING SOAP (Cake, Stick)

Arrow Laboratories, 236 W. North Ave., Chicago Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Colgate-Palmolive-Peet Co., Jersey City, N. J.
Duveen Soap Corp., 36-14 35 St., Long Island City 6, N. Y.
J. Eavenson & Sons, Del. and Penn Sts., Camden, N. J.
Hewitt Soap Co., Dayton, O.
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J.
Los Angeles Soap Co., Los Angeles
Newell Gutradt Co., 350 Fremont St., San Francisco
Procter & Gamble Dist. Co., Cincinnati
Schmidt Soap Products Co., 236 W. North Ave., Chicago
John T. Stanley Co., 642 W. 30th St., N. Y.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### SHAVING SOAP (Powder)

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Duveen Soap Corp., 36-14 35th St., Long Island City 6,
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J. Eavenson & Sons, Delaware and Penn Sts., Camden,
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Dicalite Div., 756 S. Broadway, Los Angeles, Calif. Illinois Silica Co., Cairo, Ill.
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Ampion Corp., 4-88 47th Ave., L. I. City, N. Y.
American Dispenser Co., 115 E. 23 St., N. Y. 10
Antiseptol Co., 5524 Northwest Highway, Chicago
Bobrick Mfg. Corp., 1841 Blake Ave., Los Angeles 39
Chemical Service Co., Howard & West Sts., Balto. 30
Clifton Chemical Co., 62 William St., N. Y.
Eagle Soap Corp., Huntington, Ind.
Fuld Bros., 702 S. Wolfe St., Baltimore
Garnet Chem. Corp., 911 N. Lumber St., Allentown, Pa.
H-van Prods. Co., 932 W. 38th Place, Chicago
Imperial Brass Co., 1237 W. Harrison St., Chicago
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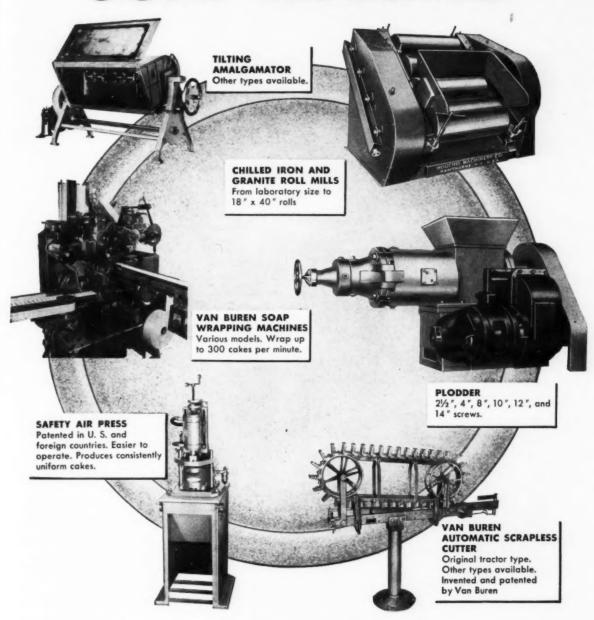
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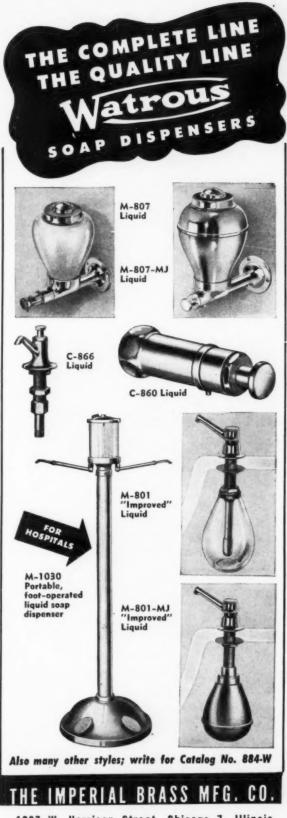
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Perry Bros., Inc., 220 Flushing Ave., Brooklyn
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Roubechez, Inc., 8 E. 12th St., New York
Roure-Dupont, Inc., 366 Madison Ave., N. Y.
Edwin Seebach Co., 912 Broadway, N. Y.
Schimmel & Co., 601 W. 26th St., N. Y.
Tennessee Eastman Corp., Kingsport, Tenn.
Seeley & Co., Nyack, N. Y.
Synfleur Scientific Labs., Monticello, N. Y.
Syntomatic Corp., 114 E. 32nd St., N. Y.
Tombarel Prods. Corp., 12 E. 22nd St., N. Y.
Ungerer & Co., 161 Sixth Ave., N. Y.
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y. 19
Albert Verley, Inc., 440 W. Superior St., Chicago
Verona Chem. Corp., 26 Verona Ave., Newark, N. J. Verona Chem. Corp., 26 Verona Ave., Newark, N. J.

#### SOAP PLANTS (Continuous Process)

Emery Industries, Carew Tower, Cincinnati, O. (High Pressure Saponification Process)
Refining Unincorporated, 70 W. 40th St., N. Y. 18
Sharples Corp., 23rd & Westmoreland Sts., Phila. 40
(Process Employing Centrifugals for the Production of Neat Soap)

#### SOAP PLANTS (Engineering)

Alan Porter Lee Associates, 19 South St., Morristown, N. J.
J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y.
Project Construction Corp., 39 Broadway, N. Y. 6
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

SOAP, POWDERED (White neutral powdered soap, powdered castile soap, etc., 95-99 per cent anhydrous soap. Do not confuse with Soap Powders.)

Armour & Co., 1355 W. 31st St., Chicago Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago

Colgate-Palmolive-Peet Co., Jersey City, N. J. Cowles Chem. Co., 7016 Euclid Ave., Cleveland 3 E. F. Drew & Co., 15 E. 26th St., N. Y. 10 Eagle Soap Corp., Huntington, Ind. Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8

Milwaukee 8
J. Eavenson & Sons, Camden, N. J.
Kranich Soap Co., 60 Richards St., Brooklyn, N. Y.
Lightfoot Schultz Go., 1412 Park Ave., Hoboken, N. J.
National Southern Products, Tuscaloosa, Ala.
Newell Gutradt Co., 350 Fremont St., San Francisco
Nopco Chemical Co., Harrison, N. J.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St.
Louis 10

G. H. Packwood Mfg. Co., 1949 Towel Glove Mrs., Louis 10
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
S. B. Penick & Co., 50 Church St., N. Y.
Procter & Gamble Distributing Co., Cincinnati
Schmidt Soap Products Co., 236 W. North Ave., Chicago
Standard Soap Co., Camden, N. J.
Swift & Co., Chicago 9
Tennessee Soap Co., 1702 N. Thomas Ave., Memphis 1,
Tenn.

Tenn.
Theobald Industries, P. O. Box 72, Harrison, N. J.
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
G. H. Wood & Co., Toronto, Ont., Canada
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### SOAP POWDERS (Do not confuse with pure powdered soaps)

Aid Soap Mfg. Co., Rochester, Pa.
American Soap & Washoline Co., Cohoes, N. Y.
Ampion Corp., 4-88 47 Av., Long Island City, N. Y.
Armour & Co., 1355 W. 31st St., Chicago Baums Castorine Co., 200 Mathew St., Rome, N. Y. Beach Soap Co., Lawrence, Mass.
Britex Corp., 17 Lewis Wharf, Boston 10 Chicago Sanitary Prods., Co., 3100 S. Throop Ave., Chicago 8
Cowles Chemical Co., 7016 Euclid Ave., Cleveland Cudahy Packing Co., 221 N. La Salle St., Chicago E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Du Bois Soap Co., Cincinnati

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- Dishwashing Compounds
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#### SOAP POWDERS (Contd.)

East Coast Soap Corp., 89 Coffey St., Bklyn. 31
J. Eavenson & Sons, Camden, N. J.
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8
Finnell System, Inc., Elkhart, Ind.
Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City
Hewitt Soap Co., Dayton, O.
R. M. Hollingshead Corp., Camden, N. J.
Hunnewell Soap Co., 114 W. 2 St., Cincinnati
Hysan Prods. Co., 932 W. 38 Pl., Chicago 9
Klix Chem. Co., 2460 Third St., San Francisco
H. Kohnstamm & Co., 91 Park Pl., N. Y.
Los Angeles Soap Co., 617 E. First St., Los Angeles
Midland Laboratories, Dubuque, Iowa
Miranol Chem. Co., 16 Melville Pl., Irvington, N. J.
National Southern Products, Tuscaloosa, Ala.
National Milling & Chem. Co., 4601 Nixon St., Phila. 27
Newell Gutradt Co., 350 Fremont St., San Francisco
Nopco Chemical Co., Harrison, N. J.
North Coast Soap & Chem. Wks., Seattle, Wash.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St.
Louis 10 Louis 10

Peck's Prods. Co., 610 E. Clarence Ave., St. Louis

Port Huron Detergent Co., Port Huron, Mich.

Procter & Gamble Distributing Co., Cincinnati

Theo, B. Robertson Prods. Co., 700 W. Division St.,

Chicago Theo. B. Robertson Frods. Co., 100 W. Division St., Chicago
S. & S. Soap Co., 815 E. 135 St., N. Y. 54
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland Stevens Soap Corp., 200 Sullivan St., Brooklyn John T. Stanley Co., 642 W. 30th St., N. Y. Sugar Beet Prods. Co., Saginaw, Mich. Swift & Co., Union Stock Yards, Chicago Tesco Chemicals, Inc., Atlanta 5, Ga. Tennessee Soap Co., 1702 N. Thomas Ave., Memphis 1, Tennessee Soap Co., 1702 N. Thomas Ave., Memphis 1, U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12 Vliet Soap Co., 638 Monroe St., Brooklyn Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Wood & Co., Toronto, Ont., Canada
Woodlets, Inc., Portland, Pa.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago
Wyandotte Chemicals Corp., J. B. Ford Div.,
Wyandotte, Mich. Chas. W. Young & Co., Phila.

SOAP PRESSES (see Presses)

SOAP SHEETS (see Soap Paper)

SOAP SOLUTIONIZING DEVICES (Solutionizing and dispensing devices for soaps and detergents)

Davies-Young Soap Co., Dayton, O.
Hysan Prods, Co., 932 W. 38 Pl., Chicago 9
Independent Specialties, 152 W. 75th St., Chicago
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Piatt & Smillie Chemicals, 2329 Pine St., St. Louis
Theobald Industries, P. O. Box 72, Harrison, N. J.
U. S. Sanitary Specialties Corp., 1001 S. California Blvd.,
Chicago Chicago 12

SOAP SLABBERS (see Soap Machinery)

SOAP STOCK (Boiled down cotton oil soap stock, etc.)

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2
Armour & Co., 1355 W. 31 St., Chicago
Brode Corp., Memphis, Tenn.
T. G. Cooper & Co., Cedar and Venango Sts., Phila.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Durkee Famous Foods. Inc., 2670 Elston Ave., Chicago
Falk & Co., Pittsburgh 30
Wm. H. Floyd & Co., Los Angeles
H. Hentz & Co., 60 Beaver St., N. Y.
Portsmouth Cotton Oil Refining Co., Portsmouth, Va.
Procter & Gamble Co., Cincinnati, O.
Southern Cotton Oil Co., 25 Broad St., N. Y.
A. E. Staley Mfg. Co., Decatur, Ill.

Swift & Co., Chicago 9 Tennessee Soap Co., 1702 N. Thomas Ave., Memphis 1, Tenn. Welch, Holme & Clark Co., 439 West St., N. Y.

SOAP VALVES (see Soap Dispensing Systems)

SOAP, WHALE OIL (see Whale Oil Soap)

SOAP WRAPPING MACHY. (see Wrapping Mach.)

SOAPLESS DETERGENTS (see Detergents, Synthetic)

SOAPLESS SHAMPOOS (see Shampoos, Soapless)

SOAPS. ANTISEPTIC AND DEODORANT (Cake and liquid)

Ampion Corp., 4-88 47th Ave., Long Island City, N. Y. Analab Laboratories, 285 Franklin St., Boston 10 Armour & Co., 1355 W. 31st St., Chicago Banner Chemical Prods. Co., 9 Calumet St., Newark 5,

Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J. Chem. Service Co. of Balto., Howard and West Sts., Balto. Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago

State Rd., Phila.
Davies-Young Soap Co., Dayton, O.
Duveen Soap Corp., 36-14 35 St., Long Island City, N. Y.
Eagle Soap Corp., Huntington, Ind.
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8
Fuld Bros., 702 S. Wolfe St., Baltimore
Guardian Chem. Corp., 10-15 43 Ave., Long Island City,

N. Y.
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
Piatt & Simillie Chemicals, 2329 Pine St., St. Louis 3
Sugar Beet Prods. Co., Saginaw, Mich.
Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27
James Varley & Sons, 1200 Switzer Ave., St. Louis 15
Allen B. Wrisley Co., 6801 W. 56th St., Chicago

SOAPS, AUTO (see Potash Soaps)

SOAPS, FLOATING (see Floating Soaps)

SOAPS, GRANULATED (see Laundry Soaps, Granulated)

SOAPS, LIQUID (see Potash Soaps)

SOAPS, MEDICINAL, CAKE (see Medicinal Soaps, Cake)

SOAPS, MOTTLED (see Mottled Soaps)

SOAPS, PINE SCRUB (see Pine Scrub Soaps)

SOAPS, SCOURING (see Scouring Soaps)

SOAPS, SCRUBBING (see Floor Scrub Soaps)

SOAPS, SURGICAL (see Potash Soaps)

SOAPS, TEXTILE (see Textile Soaps)

SODA ASH

(see also Dealers)

Columbia-Southern Chem. Corp., 5th Ave. & Bellefield, Diamond Alkali Co., 300 Union Commerce Bldg. Cleveland 14 Dow Chemical Co., Midland, Mich.

E. I. du Pont de Nemours & Co., Wilmington, Del.
Mathieson Chemical Corp., Baltimore 3
Niagara Alkali Co., 60 E. 42nd St., N. Y.
Chas. Page & Co., 50 E. 42nd St., N. Y.
17
Innis, Speiden & Co., 117 Liberty St., N. Y.
Penn Salt Mfg. Co., Widener Bldg., Phila.
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Virginia-Carolina Chem. Corp., Richmond, Va.
Welch, Holme & Clark Co., 439 West St., N. Y.
Westvaco Chem. Div., Food Machy. & Chem. Corp.,
405 Lexington Ave., N. Y.
Wyandotte Chemicals Co., Michigan Alkali Div.,
Wyandotte, Mich.

#### SODA (Modified)

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(see also Dealers)

Columbia-Southern Chem. Corp., 5th Ave. & Bellefield, Pittsburgh
Diamond Alkali Co., 300 Union Commerce Bldg.,
Cleveland 14
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Virginia-Carolina Chem. Corp., Richmond, Va.
Welch. Holme & Clark Co., 439 West St., N. Y.
Wyandotte Chemicals Corp., J. B. Ford Div.,
Wyandotte, Mich.

#### SODIUM ACID SULFATE (see Nitre Cake)

#### SODIUM ARSENITE

Chipman Chem. Co., Bound Brook, N. J.
Geigy Co., 89 Barclay St., New York
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Merck & Co., Rahway, N. J.
Penn Salt Mfg. Co., Widener Bldg., Phila.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Shepherd Chem. Co., Cincinnati 12, O.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.

#### SODIUM BENZOATE

J. T. Baker Chem. Co., Phillipsburg, N. J.
Dow Chemical Co., Midland, Mich.
Heyden Chem. Corp., 342 Madison Ave., N. Y. 17
Hooker Electrochem. Co., 4701 Buffalo Ave., Niagara Falls, N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y. 6
Merck & Co., Rahway, N. J.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Seydel Chem. Co., 225 Mercer St., Jersey City, N. J.
Tennessee Prods. & Chem. Corp., American National Bank Bldg., Nashville, Tenn.

#### SODIUM BICARBONATE

(see also Dealers)

Church & Dwight Co., 70 Pine St., N. Y.
Columbia-Southern Chem. Corp., 5th Ave. & Bellefield,
Pittsburgh
Diamond Alkali Co., 300 Union Commerce Bldg.,
Cleveland 14
E. I. du Pont de Nemours & Co., Wilmington, Del.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Innis, Speiden & Co., 117 Liberty St., N. Y.
Mathieson Chemical Corp., Baltimore 3
Pennsylvania Salt Mfg. Co., Widener Bldg., Philadelphia
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Solvay Process Div., Allied Chem. & Dye Corp., 61
Broadway, N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Virginia-Carolina Chem. Corp., Richmond 8, Va.
Welch, Holme & Clark Co., 439 West St., N. Y.
Wyandotte Chemicals Corp., Michigan Alkali Div.,
Wyandotte, Mich.

#### SODIUM BICHROMATE

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14
E. I. du Pont de Nemours & Co., Wilmington, Del. General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6 Innis, Speiden & Co., 117 Liberty St., N. Y. 6
Mallinckrodt Chem. Co., 2nd & Mallinckrodt Sts., St. Louis 7
Merck & Co., Rahway, N. J.
Mutual Chemical Co., 270 Madison Ave., N. Y.
Natural Products Refining Co., 900 Garfield Ave., Jersey City, N. J.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Jos. Turner & Co., Ridgefield, N. J.

#### SODIUM BISULFATE (see Nitre Cake)

SODIUM CARBONATE (see Soda Ash)

#### SODIUM CHLORATE

J. T. Baker Chem. Co., Phillipsburg, N. J.
Chipman Chem. Co., Bound Brook, N. J.
General Chem. Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y. 6
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Mallinckrodt Chem. Co., 2nd & Mallinckrodt Sts.,
St. Louis 7
Merck & Co., Rahway, N. J.
Oldbury Electrochem. Co., 22 E. 40th St., N. Y.
Penn Salt Mfg. Co., Widener Bldg., Phila.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Western Electrochem. Co., Los Angeles 23, Calif.
Jacques Wolfe & Co., Passaic, N. J.

#### SODIUM CHLORIDE (see Salt, Common Salt)

#### SODIUM CHLORITE

Mathieson Chemical Corp. Baltimore 3

SODIUM CITRATE (see listings under Acids, Citric, Gluconic, etc.)

#### SODIUM CYANIDE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. E. I. du Pont de Nemours & Co., Wilmington, Del. General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6
Mallinckrodt Chemical Wks, St. Louis 7
Merck & Co., Rahway, N. J.
Koppers Co., Pittsburgh 19
Rosenthal Bercow, 25 E. 26th St., N. Y.
Jos. Turner & Co., Ridgefield, N. J.

#### SODIUM FLUORIDE (see Fluorides)

SODIUM FLUOSILICATE (see Sodium Silicofts ide

SODIUM GLUCONATE (see listings under Aci. s, Civ.ic, Gluconic, etc.)

#### SODIUM HYDROSULFITE

E. I. du Pont de Nemours & Co., Wilmington, Del. General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6 General Dyestuff Corp., 435 Hudson St., N. Y. Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6 Innis, Speiden & Co., 117 Liberty St., N. Y. Mallinckrodt Chemical Wks., St. Louis 7 Merck & Co., Rahway, N. J.



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#### For Compounding Cleaners:

- Metso Granular (Na:SiO<sub>3</sub>.5H:O) original hydrated sodium metasilicate in free-flowing form. Contains 29.5% Na:O, 28.7% SiO<sub>2</sub>. Readily soluble.
- Metso 99 (Na<sub>3</sub>HSiO<sub>4</sub>.5H<sub>2</sub>O) sodium sesquisilicate.
   U.S. Pat. 2145749. Contains 36.7% Na<sub>2</sub>O, 24.2% SiO<sub>2</sub>.
   Quickly soluble without residue.
- GD (Na<sub>2</sub>O.2SiO<sub>2</sub>) hydrated powdered silicate contains 27.5% Na<sub>2</sub>O, 55.0% SiO<sub>3</sub>. Readily soluble.
- G Na<sub>2</sub>O.3.22SiO<sub>2</sub>). Fine, white hydrated powdered sodium silicate (sometimes referred to as trisilicate). Averages approximately 19.4% Na<sub>2</sub>O, 62.5% SiO<sub>2</sub>. Rapidly soluble.
- SS-C-Pwd. (Na:O.2SiO:) anhydrous. Powdered sodium silicate, slowly soluble. Contains 32.7% Na:O, 65.4% SiO:.

#### For Manufacturing Soap and Synthetic Detergents:

- N 41°Baume, Alkali-silica ratio 1:3.22. Opalescent, syrupy liquid. Viscosity 1.8 poises.
- O 42.2° Baume, Alkali-silica ratio 1:3.22. More concentrated than N. Viscosity 4.0 poises.
- RU 52°Baume. Alkali-silica ratio 1:2.40. Viscosity
  17 poises. Heavy, syrupy liquid.
- D 50°Baume. Alkali-silica ratio 1:2.00. Syrupy solution. Viscosity 2.8 poises.

#### KASIL POTASSIUM SILICATES:

- Kasil No. 1—28°Baume (7.8% K<sub>2</sub>O, 19.5% SiO<sub>2</sub>).
   Viscosity 0.4 poises.
- Kasil No. 6—40.75° Baume (12.60% K:O, 26.8% SiOz). Average viscosity 17.5 poises.

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Metso Detergents

#### SODIUM HYDROSULFITE (Contd.)

Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila. Rosenthal Bercow Co., 25 E. 26th St., N. Y. Royce Chemical Co., Carlton Hill, N. J. Virginia Smelting Co., W. Norfolk, Va. Welch, Holme & Clark Co., 439 West St., N. Y. 14 Jacques Wolf & Co., Passaic, N. J.

#### SODIUM HYPOCHLORITE (see Laundry Bleach)

#### SODIUM HYPOSULFITE (Thiosulfate)

E. I. du Pont de Nemours & Co., Wilmington, Del. General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Innis, Speiden & Co., 117 Liberty St., N. Y.
A. R. Maas Chem. Co., Div. of Victor Chem. Wks., 4570
Ardine St., South Gate, Calif.
Mallinckrodt Chem. Wks., St. Louis
Merck & Co., Rahway, N. J.
Rohm & Haas, 222 W. Washington Sq., Phila.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Virginia Smelting Co., W. Norfolk, Va.
Welch, Holme & Clark Co., 439 West St., N. Y. 14

#### SODIUM LAURYL SULFATE (see Sulfated Fatty Alcohols)

#### SODIUM METAPHOSPHATE

Blockson Chem. Co., Joliet. Ill. General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6 Griffin Chemical Co., 1000 16th St., San Francisco Mechling Bros. Chemical Co., Camden, N. J. Rumford Co., Rumford 16, R. I.

#### SODIUM METASILICATE (Anhydrous and Hydrated)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. Cowles Chemical Co., 7016 Euclid Ave., Cleveland Diamond Alkali Co., 300 Union Commerce Blvd., Cleveland 14

E. I. du Pont de Nemours & Co., Wilmington, Del. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6
Innis, Speiden & Co., 117 Liberty St., N. Y. 6
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6
Virginia-Carolina Chem. Corp., Richmond 5, Va.
Welch, Holme & Clark Co., 439 West St., New York

#### SODIUM ORTHOSILICATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. Cowles Chemical Co., 7016 Euclid Ave., Cleveland Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14 Dow Chemical Co., Midland, Mich. Innis, Speiden & Co., 117 Liberty St., N. Y. Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Phila.

#### SODIUM PERBORATE

(see also Dealers)

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Caldwell Chem. Co., 441 Lexington Ave., N. Y. E. I. du Pont de Nemours & Co., Wilmington, Del. Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6 Mallinckrodt Chem. Wks., 2nd & Mallinckrodt Sts., St. Louis 7 Merck & Co., Rahway, N. J.

SODIUM PHOSPHATES (see also Sodium Metaphosphate; Sodium Tripolyphosphate; Tetrasodium Pyrophosphate, Trisodium Phosphate, etc.)

Blockson Chemical Co., Joliet, Ill. E. I. du Pont de Nemours & Co., Wilmington, Del. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6 A. R. Maas Chemical Co., Div. of Victor Chem. Wks., 4570 Ardine St., South Gate, Cal.
Monsanto Chemical Co., St. Louis
Rumford Co., Rumford 16, R. I.
Victor Chemical Wks., 141 W. Jackscon St., Chicago
Virginia-Carolina Chem. Corp., Richmond, Va.
Welch, Holme & Clark Co., 439 West St., N. Y. 14
Westvaco Chemical Div., Food Machinery & Chem.
Corp., 405 Lexington Ave., N. Y. 17

#### SODIUM PYROPHOSPHATE (see Tetrasodium Pyrophosphate)

#### SODIUM SESQUICARBONATE

Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14 Mathieson Chemical Corp., Baltimore 3 Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10 Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y. Virginia-Carolina Chemical Corp., Richmond, Va. Welch, Holme & Clark Co., 439 West St., N. Y. Westvaco Chem. Div., Food Machy. & Chem. Corp., 415 Lexington Ave., N. Y. 17

#### SODIUM SESQUISILICATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. Cowles Chemical Co., 7016 Euclid Ave., Cleveland Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14 Innis, Speiden & Co., 117 Liberty St., N. Y. Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6 Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10 Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y. Jos. Turner & Co., Ridgefield, N. J. Virginia-Carolina Chem. Corp., Richmond 8, Va. Welch, Holme & Clark Co., 439 West St., N. Y. Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

#### SODIUM SILICATE

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Diamond Alkali Co., 300 Union Commerce Bldg.,
Cleveland 14
Davison Chemical Co., Baltimore
E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chem. Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Virginia-Carolina Chem. Corp., Richmond 5, Va.
Welch, Holme & Clark Co., 439 West St., N. Y.

#### SODIUM SILICOFLUORIDE

American Fluoride Corp., 151 W. 19th St., N. Y. Armour Fertilizer Wks., Atlanta, Ga. Blockson Chemical Co., Joliet, Ill. E. I. du Pont de Nemours & Co., Wilmington, Del. General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. Harshaw Chemical Co., 1945 E. 97th St., Cleveland Innis, Speiden & Co., 117 Liberty St., N. Y. Merck & Co., Rahway, N. J. Penn. Salt Mfg. Co., Widener Bldg., Phila. Rosenthal Bercow Co., 25 E. 26th St., N. Y. Henry Sundheimer, Inc., 103 Park Ave., N. Y. Tennessee Corp., Atlanta; Ga. Jos. Turner & Co., Ridgefield, N. J. Welch, Holme & Clark Co., 439 West St., N. Y. 19

#### SODIUM SULFITE

E. I. du Pont de Nemours & Co., Wilmington General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6 Mallinckrodt Chemical Wks., St. Louis, Mo.

#### SODIUM SULFITE (Contd.)

A. R. Maas Chem. Co., Div. of Victor Chem. Wks., 4570
 Ardine St., South Gate, Calif.
 Prior Chemical Corp., 420 Lexington Ave., N. Y.
 Stauffer Chemical Co., 420 Lexington Ave., N. Y.

#### SODIUM TRIPOLYPHOSPHATE

Blockson Chemical Co., Joliet, Ill.
E. I. du Pont de Nemours & Co., Wilmington
General Chemical Div., Allied Chemical & Dye Corp.,
40 Rector St., N. Y.
A. R. Maas Chemical Co., Div. of Victor Chem. Wks.,
4570 Ardine St., South Gate, Calif.
Monsanto Chem. Co., St. Louis 4
Victor Chemical Wks., 141 W. Jackson, Chicago
Virginia-Carolina Chem. Corp., Richmond 8, Va.
Welch, Holme & Clark Co., 439 West St., N. Y. 19
Westvaco Chem. Div., Food Machy. & Chem. Corp.,
415 Lexington Ave., N. Y. 17

#### SOFT SOAPS (See Potash Soaps)

#### SOIL FUMIGANTS

Dow Chemical Co., Midland, Mich.
Julius Hyman & Co., Div. Shell Chemical Corp., Denver,
Colo.
Larvacide Products, Inc., 117 Liberty St., N. Y. 17
Monsanto Chemical Co., St. Louis

#### SOLUBLE OILS (See Sulfonated Oils)

#### SOLVENT NAPHTHA

Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati 29, Ohio
Anderson-Prichard Oil Corp., Oklahoma City, Okla.
Atlantic Refining Co., 260 S. Broad St., Phila.
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St.
N. Y.
S. H. Bell Co., 1407 Gulf Bldg., Pittsburgh
Buffalo Solvents & Chemicals Corp., Box 73 Station B.,
Buffalo 7, N. Y.
Central Solvents & Chemicals Co., 2545 W. Congress St.,
Chicago 12
Commerce Petroleum Co., 2980 Archer Ave., Chicago
DeMert & Dougherty, Inc., 3001 W. 47 St., Chicago 32
Gulf Oil Corp., Pittsburgh 30
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,
Indianapolis 22, Ind.
Koppers Co., Koppers Bldg., Pittsburgh
Missouri Solvents & Chemicals Co., 419 De Soto Ave.,
St. Louis 7, Mo.
Neville Co., Pittsburgh
Pennsylvania Refining Co., Butler, Pa.
Reilly Tar & Chemical Corp., Indianapolis
Skelly Oil Co., 605 W. 47th St., Kansas City, Mo.
Sinclair Refining Co., East Chicago, Ind.
Southern Solvents & Chemicals Corp., 1352 Jefferson
Highway, New Orleans 18, La.
Standard Oil Co. (Calif.), 225 Bush St., San Francisco
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago
Tar Residuals, Inc., 420 Lexington Ave., N. Y.
Texas Solvents & Chemicals Co., 8501 Market St.,
Houston 15, Texas
Velsicol Corp., 330 E. Grand Ave., Chicago
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,
Detroit 11, Michigan
Wisconsin Solvents & Chemicals Co., 1500 Century Ave.,
S.W., Grand Rapids 9, Mich.

#### SOLVENTS (Chlorinated, also alcohols, coal tar derivatives, etc.)

Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati 29, Ohio Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. Buffalo Solvents & Chemicals Corp., Box 73 Station B., Buffalo 7, N. Y.
Carbide & Carbon Chem., 30 E. 42nd St., N. Y.
Central Solvents & Chemicals Co., 2545 W. Congress St., Chicago 12, Ill.
Commercial Solvents Corp., 260 Madison Ave., N. Y.
Crosby Chemicals, Inc., De Ridder, La.
Diamond Alkali Co., Cleveland 14
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Enjay Co.. 15 W. 51st St., N. Y.
Hercules Powder Co., 961 Market St., Wilmington
(Terpene)
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis 22, Ind.
Jefferson Chemical Co., 260 Madison Ave., N. Y. 16
Koppers Co., Koppers Bldg., Pittsburgh
Michigan Chemical Corp., St. Louis, Mich.
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.
Monsanto Chemical Co., 1700 2nd St., St. Louis
Neville Co., Pittsburgh
Newport Industries, 230 Park Ave., N. Y.
Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio
Penna. Industrial Chem. Corp., Clairton, Pa.
Pennsylvania Refining Co., Butler, Pa.
Reilly Tar & Chemical Corp., 100 Main Sharples Chemicals, Inc., 123 S. Broad St., Phila.
Shell Chemical Corp., 50 W. 50th St., N. Y. 18
Skelly Oil Co., Kansas City, Mo.
Southern Solvents & Chemicals Corp., 1352 Jefferson
Highway, New Orleans 18, La.
Tennessee Eastman Co., Kingsport, Tenn.
Texas Solvents & Chemicals Co., 8501 Market St.,
Houstorial Chemicals, Inc., 120 Broadway, N. Y. 5
Velsicol Corp., 330 E. Grand Ave., Chicago
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,
Detroit 11, Michigan
Weatvaco Chem. Div., Food Machy. & Chem. Corp., 405
Lexington Ave., N. Y.
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,
Milwaukee 14, Wis.
Wolverine Solvents & Chemicals Corp., 1719 S. 83rd St.,
Milwaukee 14, Wis.
Wolverine Solvents & Chemicals Corp., 1719 S. 83rd St.,
Milwaukee 14, Wis.

#### SOLVENTS, OXYGENATED

Carbide & Carbon Chem., 30 E. 42nd St., N. Y. Dow Chemical Co., Midland, Mich. Enjay Co., 15 W. 51st St., N. Y. 19 Jefferson Chemical Co., 260 Madison Ave., N. Y. 16 U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5

#### SOLVENTS, PETROLEUM

Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati 29, Ohio
Anderson-Prichard Oil Co., Oklahoma City, Okla.
Atlantic Refining Co., 260 S. Broad St., Philadelphia Buffalo Solvents & Chemicals Corp., Box 73 Station B., Buffalo 7, N. Y.
Carbide & Carbon Chem., 30 E. 42nd St., N. Y.
Central Solvents & Chemicals Co., 2545 W. Congress St., Chicago 12
Commerce Petroleum Co., 2980 Archer Ave., Chicago Commercial Solvents Corp., 260 Madison Ave., N. Y.
Gulf Oil Corp., Pittsburgh 30
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis 22, Ind.
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.
Neville Co., Pittsburgh 25
Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio
Penna. Industrial Chem. Corp., Clairton, Pa.
Pennsylvania Refining Co., Butler, Pa.
Phillips Petroleum Co., Chemical Prods. Dep., Bartlesville, Okla.
Shell Oil Co., 50 W. 50th St., N. Y.
Sinclair Refining Co., 630 5th Ave., N. Y.
Skelly Oil Corp., 605 W. 47th St., Kansas City, Mo.

#### SOLVENTS, PETROLEUM (Contd.)

L. Sonneborn Sons, 300—4th Ave., N. Y. 10
Southern Solvents & Chemicals Corp., 1352 Jefferson
Highway, New Orleans 18, La.
Standard Oil Co. (Calif.), 225 Bush St., San Francisco
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago
Standard Oil Co. (Ohio), Midland Bldg., Cleveland
Texas Solvents & Chemicals Co., 8501 Market St.,
Houston 15, Texas
Velsicol Corp., 330 Grand Ave., Chicago
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,
Detroit 11, Michigan
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,

Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,

Milwaukee 14, Wis. Wolverine Solvents & Chemicals Co., 1500 Century Ave.,

S.W., Grand Rapids 9, Mich.

#### SOYA BEAN OIL

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2
Balfour, Guthrie Co., 67 Wall St., N. Y.
Irving R. Boody & Co., 120 Wall St., N. Y.
E. F. Drew & Co., Wecoline Div., Boonton, N. J.
Eastern Industries, Inc., Ridgefield, N. J.
Falk & Co., Pittsburgh 30
General Mills, Chemical Div., 400 2nd Ave., Minneapolis 1
William O. Goodrich Co., Milwaukee, Wis.
W. R. Grace & Co., 7 Hanover Sq., N. Y.
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave.,
N. Y. 17 N. Y. 17 N. Y. 17
Spencer Kellogg & Son, Buffalo, N. Y.
Pacific Vegetable Oil Co., 62 Townsend St., San Francisco
Purina Mills, St. Louis
Robinson Wagner Co., 110 E. 42nd St., N. Y.
A. E. Staley Mfg. Co., Decatur, Ill.
Swift & Co., Chicago
Welch, Holme & Clark Co., 439 West St., N. Y.

#### SOYA BEAN FATTY ACIDS

Archer Daniels-Midland Co., Roanoke Bldg., Archer Daniels-Midland Co., Roanoke Bldg., Minneapolis, Minn.

Armour & Co., 1355 W. 31st St., Chicago
Capital City Prods. Co., P. O. Box 569, Columbus, O. E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Emery Industries, 4300 Carew Tower, Cincinnati 2
General Mills, Chemical Div., Minneapolis 1
Griffin Chemical Co., 1000 16th St., San Francisco
A. Gross & Co., 295 Madison Ave., N. Y. 17
W. C. Hardesty Co., 41 E. 42nd St., N. Y. 17
Swift & Co., Chicago 9
Welch, Holme & Clarke Co., 429 W. 29th St., N. Y. 14 Welch, Holme & Clarke Co., 429 W. 29th St., N. Y. 14 Woburn Chemical Corp., Harrison, N. J.

#### SPONGES (Natural and Synthetic)

American Sponge & Chamois Co., 47 Ann St., N. Y. American Standard Mfg. Co., 2509 S. Green St., Chicago Atlas Sponge Co., 9 White St., N. Y. E. I. du Pont de Nemours & Co., Wilmington (Cellulose) Florida Sponge & Chamois Co., 42 Cliff St., N. Y. Great Eastern Sponge & Chamois Co., 233 N. Catt. Pk. Ave., Baltimore Kurly Kate Corp., 2215 S. Michigan Ave Ave., Chicago 16 (Metal) James H. Rhodes & Co., 157 W. Hubbard St., Chicago Robinson Sponge Co., 1805 Atlantic Ave., Brooklyn Schroeder & Tremayne, Inc., 1711 Delmar Blvd., St. Louis 3

#### SPOTTING FLUIDS (see Cleaning Fluids)

SPOUTS (see Can Spouts, Closures)

#### SPRAYERS and ATOMIZERS, BOTTLE

Arnold-Copeland Co., 22 Elkins St., So. Boston, Mass. Calmar Co., 6800 McKinley Ave., Los Angeles, Calif. R. E. Chapin Mfg. Wks., 1400 Chapin St., Batavia, N. Y.

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#### CONTINUOUS SPRAYER

The new 31G is a continuous-type sprayer with galvanized tank and pump equipped with a patented atomizing whirl-spray nozzle. Two-quart tank is fitted with new, no-leak cap. Pump features a positive-action air check valve.

#### HIGH-PRESSURE CHEMICAL SPRAYER

Any degree of atomization, from a fine mist to a coarse spray, is furnished by Dobbins No. 5G chemical sprayer. There's finger-tip lever action shut-off, and needle valve volume control. The pressure-seal valve-plunger is self-lubricating. Positive-action air-check valve is easily removable for cleaning. Ruggedly constructed for specialized high-pressure chemical applications.

#### LEVER-ACTION CHEMICAL SPRAYER

The Dobbins No. 43G is a three-quart continuous sprayer with lever-controlled shut-off valve. Galvanized tank and pump featuring a whirling brass spray cap, with strainer. Handles oil sprays, chemicals and other sediment-free solutions smoothly and forcefully.

#### FLOOR OIL SPRAYER

Dobbins No. 11 is ideal for the application of floor oils and other floor dressings. Patented air regulator gives easy control of atomization. Nozzle position makes it possible to spray a fine, even film over large areas and under desks and furniture. Positive-action air valve in pump is easily removed for cleaning.

Delivers a fine uniform dust without waste. Develops a blast of air at start of stroke. No. 133 is furnished with a 24" discharge tube with angled end for accurate placement of dust. Positive action air valve prevents dust from entering pump cylinder.

#### SOAP SPRAYER

An economical, easy-to-operate 3½-gallon galvanized soap sprayer for janitor service. Hose, valve seats and all gaskets of No. S 122G soap sprayer are resistant to caustic soap. The flat-fan nozzle discharge insures thorough even coverage.

#### COMPRESSED AIR SPRAYER

Large opening in top for easy cleaning and filling. Long-stroke pump with selflubricating pressure-seal valve plunger. Develops high pressure with little effort. Handles all solutions efficiently. Four-gallon tank, available in seam-welded galvanized or stainless steel models. Oil and chemical-resistant hose and gaskets are used in No. 44G.

#### NEW DOBBINS ADJUSTABLE NOZZLE

This nozzle is adjustable to any spray from a fine fog to a forceful solid stream. Adjusts like common garden hose nozzle. Increases tremendously the versatility of any sprayer, and fits any standard ½ " pipe threading.

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#### SPRAYERS & ATOMIZERS (Contd.)

Federal Tool Corp., 3600 S. Pratt Blvd., Chicago 45 H. D. Hudson Mfg. Co., 549 E. Illinois St., Chicago 11 D. B. Smith & Co., 414 Main St., Utica, N. Y. Wilco Co., 4425 Bandinni Blvd., Los Angeles 23 Z & W Mach. Prods., Inc., 5100 St. Clair Ave., Cleveland

#### SPRAYERS, COMPRESSED AIR

Acmeline Mfg. Co., Traverse City, Mich.
Binks Mfg. Co., 3114 Carroll Ave., Chicago
Champion Sprayer Co., 6523 Heintz Ave., Detroit 11
R. E. Chapin Mfg. Co., Batavia, N. Y.
DeVilbiss Co., Toledo, O.
Dobbins Mfg. Co., Elkhart, Ind.
Fumeral Co., Racine, Wis. (built in systems)
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
Imperial Brass Co., 1237 W. Harrison St., Chicago
Lofstrand Co., Rockville, Md.
Lowell Mfg. Co., 589 E. Illinois St., Chicago
Piezo Mfg. Corp., 110 E. 42nd St., N. Y.
Simmon Paint Spray Brush Co., Dayton, O.
D. B. Smith & Co., 414 Main St., Utica, N. Y.
Spraying Systems Co., 3266 Randolph St., Bellwood, Ill.
Universal Metal Prods. Co., Lowell, Mich.
Volume Sprayer Mfg. Co., Tulsa, Okla.

#### SPRAYERS, ELECTRIC

Acmeline Mfg. Co., Traverse City, Mich.
Binks Mfg. Co., 3114 Carroll Ave., Chicago
Breuer Elect. Mfg. Co., 5100 N. Ravenswood Ave.,
Chicago 40
DuLa Mfg. Co., 351 Atlantic Ave., Brooklyn, N. Y.
Fumeral Co., Racine, Wis.
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
Idico Prods. Co., 1 W. 125th St., N. Y. C.
Lowell Mfg. Co., 589 E. Illinois St., Chicago
Piezo Mfg. Corp., 110 E. 42nd St., N. Y.
Silver Creek Precision Corp., Silver Creek, N. Y.
James Varley & Sons, 1200 Switzer Ave., St. Louis 15
Z & W Machine Prods., 5151 St. Clair Ave., Cleveland 14

#### SPRAYERS, ELECTRIC, STEAM

DuLa Mfg. Co., 351 Atlantic Ave., Brooklyn Fumeral Co., Racine, Wis. Hydro-Mist Div., Arnold Laboratories, 1515 W. Glenoaks Blvd., Glendale, Calif. Lowell Mfg. Co., North Pier Terminal. Chicago Madewell Products Inc., 3125 E. 7th St., Oakland, Calif.

#### SPRAYERS, HAND

Acmeline Mfg. Co., Traverse City, Mich.
R. E. Chapin Mfg. Co., Batavia, N. Y.
Dobbins Mfg. Co., Elkhart, Ind.
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
Idico Prods. Co., 1 W. 125 St., N. Y.
Jaeckh Mfg. Co., Cincinnati
Lofstrand Co., Rockville, Md.
Lowell Mfg. Co., 589 E. Illinois St., Chicago
D. B. Smith & Co., 414 Main St., Utica, N. Y.
Standard Container, Inc., Rockaway, N. J.
Universal Metal Prods. Co., Lowell, Mich.
Volume Sprayer Mfg. Co., Tulsa, Okla.
Z & W Machine Prods., 5151 St. Clair Ave., Cleveland 14

#### SPRAYERS, POWER (Heavy Duty)

John Bean Mfg. Co., Div. Food Mach. Co., Lansing, Mich. Besler Corp., 4053 Harlan St., Emeryville, Calif. Buffalo Turbine Agri. Equip. Co., Towanda, N. Y. R. E. Chapin Mfg. Wks., Batavia, N. Y. Dobbins Mfg. Co., Elkhart, Ind. A. B. Farquhar Co., 142 N. Duke St., York, Pa. Hanson Chemical & Equipment Co., Beloit, Wis. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago Hardie Mfg. Co., Hudson, Mich. Hurst Industries, Inc., 1849 S. 1st St., San Jose, Cal. F. E. Myers & Brothers Co., Ashland, O. Oberdorfer Foundries, Inc., 5100 Thompson Rd., Syracuse Silver Creek Precision Co., Silver Creek, N. Y. Victor Products Corp., Ransom, W. Va.

#### SPRAYERS, NOZZLES for

Accessories Mfg. Co., 705 McGee St., Kansas City, Mo. Bete Fog Nozzle Co., Greenfield, Mass.
H. D. Hudson Mfg. Co., 549 E. Illinois St., Chicago 11 Lofstrand Co., Rockville, Md.
Monarch Mfg. Works, 3406 Miller St., Phila.
D. B. Smith & Co., 414 Main St., Utica, N. Y.
Spraying Systems Co., 3217 Randolph St., Bellwood, Ill. Z & W Mach. Products, 5151 St. Clair Ave., Cleveland 14

#### SPRAY PROCESS SOAP PLANT INSTALLATIONS

Alan Porter Lee Associates, 19 South St., Morristown, N. J. Bowen Engineering, Inc., North Branch, N. J. J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y. Swenson Evaporator Div., Whiting Corp., Whiting, Ill. Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

#### SPRAY SYSTEMS, PERMANENT INSTALLATIONS

Fumeral Co., Racine, Wisc. H. D. Hudson Mfg. Co., 549 E. Illinois St., Chicago 11 Virginia Smelting Co., West Norfolk, Va. Z & W Machine Prods., 5151 St. Clair Ave., Cleveland 14

SPREADERS for INSECTICIDE (see Agricultural Insecticide Spreaders, Clays, Emulsifiers, etc.)

#### SQUEEGEES

Ardmore Mfg. Co., 5082 N. Lincoln Ave., Chicago W. J. Dennis & Co., 1732 N. Kolmar, Chicago A. F. Dormeyer Mfg. Co., 4316 N. Kilpatk. St., Chicago Greenview Mfg. Co., 2557 Greenview Ave., Chicago 14 Aug. Hanke & Son Co., 6326 W. Guyer Ave., Chicago Warren Haviland Corp., 1810 Chouteau Ave., St. Louis 3 Illinois Duster & Brush Co., 1944 Webster Ave., Chicago W. E. Kautenberg Co., P. O. Box 90, Freeport, Ill. J. Racenstein & Co., 621 Broadway, N. Y. Reliance Hardware & Mfg. Co., 1438 N. Keating St., Chicago White Mop Wringer Co., Fultonville, N. Y.

#### SQUILLS (Rodent Poison)

A-M-R Chemical Co., 985 E. 35th St., Bklyn. 18
Heckathorn & Co., Richmond, Calif.
McLaughlin, Gormley, King Co., 1715 5th St., S. E.,
Minneapolis, Minn.
S. B. Penick & Co., 50 Church St., N. Y.
Prentiss Drug & Chem. Co., 110 William St., N. Y.
Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27
York Chem. Co., 23 Dean St., Brooklyn, N. Y.

STAINLESS STEEL TANKS (see Tanks, Stainless Steel, etc.)

#### STANNOUS CHLORIDE (see Tin Crystals)

#### STARCH

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. Arabol Mfg. Co., 110 E. 42nd St., N. Y. T. G. Cooper & Co., 117 Liberty St., N. Y. Corn Products Ref. Co., 17 Battery Pl., N. Y. Innis, Speiden & Co., 117 Liberty St., N. Y. Keever Starch Co., Columbus, O. H. Kohnstamm & Co., 91 Park Pl., N. Y. National Starch Prods., 270 Madison Ave., N. Y. Orbis Products Corp., 215 Pearl St., N. Y. Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10 L. A. Salomon & Bro., 216 Pearl St. A. E. Staley Mfg. Co., Decatur, Ill. Welch, Holme & Clark Co., 439 West St., N. Y.

#### STEARATES (Zinc, Calcium, Magnesium, etc.)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. Antara Chemicals, Div. General Dyestuff Corp., 435 Hudson St., N. Y. Atlas Powder Co., Wilmington, Del.

#### STEARATES (Contd.)

Capital City Prods. Co., P. O. Box 569, Columbus, O. Commercial Solvents Corp., 260 Madison Ave., N. Y. Cuprinol Inc., 7 Water St., Boston Glyco Prods. Co., 26 Court St., Brooklyn 2 R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y. W. C. Hardesty Co., 41 E. 42nd St., N. Y. (Glyceryl, Glycol) Harshaw Chemical Co., 1945 E. 97th St., Cleveland Innis, Speiden & Co., 117 Liberty St., N. Y. Kessler Chem. Co., State Rd., Phila. 35 (Glyceryl, Glycol) Mallinckrodt Chem. Wks., St. Louis Merck & Co., Rahway, N. J. Metasap Chem. Co., First & Essex Sts., Harrison, N. J. M. W. Parsons, Inc., 59 Beekman St., N. Y. Rosenthal Bercow Co., 25 E. 26th St., N. Y. Hans Tobeason, 33 Rector St., N. Y. 6 Jos. Turner & Co., Ridgefield, N. J. Warwick Chemical Co., 10-10 44th Ave., L. I. C. 1, N. Y. Whittaker, Clark & Daniels, 260 W. Bway., N. Y.

#### STEARIC ACID

Acme-Hardesty Co., 60 E. 42nd St., N. Y. C. Archer-Daniels-Midland Co., Minneapolis 2 Armour & Co., 1355 W. 31st St., Chicago Atlas Powder Co., Wilmington, Del. E. A. Bromund Co., 258 Broadway, N. Y. 7 Celina Stearic Acid Co., Celina, Ohio Century Stearic Acid Candle Wks., 41 E. 42nd St., N. Y. Concord Chem. Co., Moorestown, N. J. Darling & Co., 4201 S. Ashland Ave., Chicago E. F. Drew & Co., 15 E. 26th St., N. Y. 10 Eastern Industries, Inc., Ridgefield, N. J. Emery Industries, Inc., 4300 Carew Tower, Cincinnati General Mills, Chemical Div., 400 2nd Ave., Minneapolis 1
Griffin Chem. Co., 1000 16th St., San Francisco A. Gross & Co., 295 Madison Ave., N. Y. W. C. Hardesty Co., 41 E. 42nd St., N. Y. Innis, Speiden & Co., 117 Liberty St., N. Y.

Orbis Products Corp., 215 Pearl St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
F. W. Steadman Co., 59 Pearl St., N. Y. 4
Swift & Co., Chicago 9
Theobald Industries, P. O. Box 72, Harrison, N. J.
Arthur C. Trask Co., 4103 S. LaSalle St., Chicago 9
Welch, Holme & Clark Co., 439 West St., N. Y.
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.
Will & Baumer Candle Co., Syracuse, N. Y.
Wilson-Martin Co., Snyder Ave., & Swanson St., Phila.
Witco Chemical Co., 260 Madison Ave., N. Y.
Woburn Chemical Corp., Harrison, N. J.

#### STEARINE

Allied Asphalt & Mineral Corp., 217 Broadway, N. Y. Archer-Daniels-Midland Co., Minneapolis 2
E. A. Bromund Co., 258 Broadway, N. Y. 7
Celina Stearic Acid Co., Celina, Ohio
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Durkee Famous Foods, Inc., 2670 Elston Av., Chicago
Eastern Industries, Inc., 4300 Carew Tower, Cincinnati
Falk & Co., Pittsburgh 30
A. Gross & Co., 295 Madison Ave., N. Y. 17
Independent Mfg. Co., Bridesburg P. O., Phila.
Morris Co., Union Stock Yards, Chicago
Pacific Vegetable Oil Corp., 62 Townsend St.,
San Francisco
Procter & Gamble Co., Cincinnati
Swift & Co., Union Stock Yards, Chicago
Welch, Holme & Clark Co., 439 West St., N. Y.
Wilson & Co., 4100 Ashland Ave., Chicago
G. S. Ziegler & Co., 99 Church St., N. Y.
Zophar Mills, Inc., 112 26th St., Brooklyn, N. Y.

#### STEARINE PITCH

Allied Asphalt & Mineral Corp., 217 Broadway, N. Y. Archer-Daniels-Midland Co., Minneapolis 2 Armour & Co., 1355 W. 31st St., Chicago Capital City Prods. Co., P. O. Box 569, Columbus, Ohio Darling & Co., 4201 S. Ashland Ave., Chicago



E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Eastern Industries, Inc., Ridgefield, N. J.
Emery Industries, Inc., 4300 Carew Tower, Cincinnati
General Mills, Chem. Div., 400 2nd Ave., Minneapolis 1
A. Gross & Co., 295 Madison Ave., N. Y.
W. C. Hardesty Co., 41 E. 42nd St., N. Y.
Pennotex Oil Corp., 29 Broadway, N. Y. 6
Procter & Gamble Co., Cincinnati
Swift & Co., Chicago 9
Arthur C. Trask Co., 4103 S. LaSalle St., Chicago
Wilson & Co., 4100 Ashland Ave., Chicago
G. S. Ziegler & Co., 99 Church St., N. Y.
Zophar Mills, Inc., 112 26th St., Brooklyn, N. Y.

STEARYL ALCOHOL (see Fatty Alcohols)

STEEL DRUMS (see Drums, Steel)

STEEL DRYING ROLLS see Chilling Rolls

STEEL PAILS (see Pails, Steel)

STEEL TANKS (see Tanks, Steel)

STEEL, WOOL

American Steel Wool Mfg. Co., 41-24 Orchard St., L. I. City, N. Y. Brilco Co., 60 John St., Bklyn. 1 Durawool, Inc., 95-59 222 St., Queens Village, N. Y. International Steel Wool Co., Springfield, Ohio James H. Rhodes & Co., 157 W. Hubbard St., Chicago Williams Co., London, Ohio

STOCK SPRAYS and DIPS (see Agricultural Insecticides)

STODDARD'S SOLVENT (see Solvents, Petroleum)

STORAGE TANKS (see Tanks, Storage, etc.)

STRAINERS, for use in conjunction with spray nozzles (see Nozzles)

SUDSING EQUIPMENT (see Soap Solutionizing Devices)

SULFATED and SULFONATED FATTY ALCOHOLS (and other Non-Soap Organic Detergents and Derivatives. (See also Detergents, Synthetic)

Alrose Chem. Co., Box 1294, Providence, R. I.
American Alcolac Corp., 3440 Fairfield Rd., Balto.
Antara Chemicals, Div. General Dyestuff Corp.,
435 Hudson St., N. Y.
Archer-Daniels-Midland Co., Minneapolis 2
Carbide & Carbon Chemicals, 30 E. 42nd St., N. Y.
Carlstadt Chem. Co., Carlstadt, N. J.

Colgate-Palmolive-Peet Co., Jersey City, N. J.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
E. I. du Pont de Nemours Co., Wilmington, Del.
Emulsol Corp., 59 E. Madison St., Chicago
Hummel Chemical Co., 90 West St., N. Y.
N. I. Malmstrom & Co., 147 Lombardy St., Brooklyn
M. Michel & Co., 90 Broad St., N. Y.
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis
National Aniline Div., Allied Chem. & Dye Corp., 40

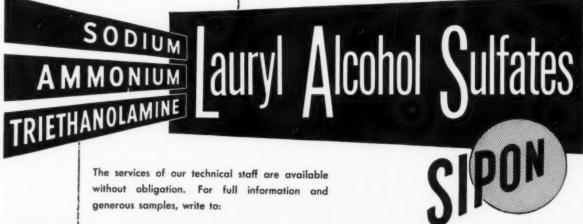
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Eagle Soap Corp., Huntington, Ind.
Elkay Products Corp., 323 W. 16th St., N. Y.
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good, Inc., Kensington, Phila.
Higley Chemical Co., Dubuque, Iowa
Hunt Mfg. Co., Lisbon Rd., Cleveland
Hysan Prods. Co., 932 W. 38th Place, Chicago
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Knoxall Corp., 1005 E. Sumner Ave., Indianapolis, Ind.

#### THEATRE SPRAYS (Contd.)

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Midland Labs., Dubuque, Ia.
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Rex-Cleanwall Corp., Brazil, Ind.
Theo. B. Robertson Prods. Co., 706 W. Division St.,
Chicago
Rochester Sanitary Prods. Co., 874 Seward St.,
Rochester, N. Y.
Trio Chem. Wks., 341 Scholes St., Bklyn. 6
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Sanitary Specialties Corp., 1003 S. California Blvd.,
Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis 15
Victory Chem. Co., 148 Fairmount Ave., Phila.
G. H. Wood & Co., Toronto, Ont., Canada
World Spray Co., Inc., 5117 Central Ave., Los Angeles

#### THYMOL (see Aromatic Chemicals)

#### TIN CRYSTALS (Stannous Chloride)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. J. T. Baker Chem. Co., Phillipsburg, N. J. E. I. du Pont de Nemours & Co., Wilmington, Del. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. Harshaw Chemical Co., 1945 E. 97 St., Cleveland Metal & Thermit Corp., 120 Broadway, N. Y.

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 Franklin Metal Prods. Co., 1500 S. Wabash Ave.,
 Chicago
 Palmer Fixture Co., Waukesha, Wisc.
 Scott Paper Co., Chester, Pa.

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(see also Bath Salts, Shampoos, etc.)

Avon Products, Inc., Suffern, N. Y.
G. Barr & Co., 3601 S. Racine Ave., Chicago
Corn King Co., Cedar Rapids, Ia.
Fuld Bros., 702 S. Wolfe St., Baltimore 3
R. Gesell, Inc., 200 W. Houston, N. Y.
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J
Old Empire Mfg. Chemists, Mt. Prospect & Verona Ave.,
Newark, N. J.
Schmidt Soap Products Co., 236 W. North Ave., Chicago
Shores Co., Cedar Rapids, Ia.
John T. Stanley Co., 642 W. 30th St., N. Y.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### TOILET SOAPS (Private Label)

Air Soap Mfg. Co., Rochester, Pa.
Armour & Co., 1355 W. 31st St., Chicago
Baum's Castorine Co., Rome, N. Y.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
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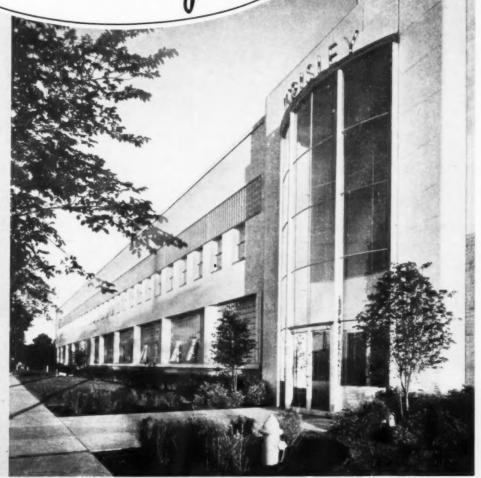
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Hewitt Soap Co., Dayton, O.
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Long Island Soap Co., 29 Bridgewater St., Brooklyn
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J.
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Newell, Gutradt Co., 350 Fremont St., San Francisco
North Coast Soap & Chem. Wks., Seattle, Wash.
Old Empire Mfg. Chemists, Mt. Prospect & Verona Ave.,
Newark, N. J.
Procter & Gamble Dist. Co., Cincinnati
Schmidt Soap Products Co., 236 W. North Ave., Chicago
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
Wolf Creek Soap Co., Dayton, Ohio
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Potlatch Forests, Inc., 1450 W. Holt St., Ponoma, Calif.

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Balcom Industries, 600-601 Tenth St., Greeley, Colo. California Spray-Chemical Corp., Richmond, Calif. Central Chem. Co., 49 N. Jonathan St., Hagerstown, Md. Chapman Chem. Co., 38 Court St., Memphis, Tenn. Chipman Chem. Co., Bound Brook, N. J. William Cooper & Nephews, 1909 Clifton St., Chicago Durham Chem. Co., 4124 E. Pacific Way, Los Angeles Flag Sulphur & Chem. Co., Tampa, Fla. Florida Agricultural Supply Co., Box 658, Jacksonville. Fla. Jacksonville, Fla.
Food Machy. Corp., Niagara Sprayer & Chem. Div.,
Middleport, N. Y. Middleport, N. Y.
Fresno Agricultural Chem. Co., Fresno, Calif.
General Chemical Div., 40 Rector St., N. Y.
Geigy Co., Inc., 89-91 Barclay St., New York
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Hayes-Sammons Co., Mission, Texas
Kolker Chemical Works, Div. Diamond Alkali Co.,
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Phoenix Chem. Co., 19th Ave., & Roosevelt,
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Pittsburgh Agricultural Chem. Co., 350 Fifth Ave., N. Y.
Plainsman Supply Co., Plainview, Texas
Port Fertilizer & Chem. Co., Los Fresnos, Texas
John Powell & Co., 1 Park Ave., New York
Prentiss Drug & Chem. Co., 110 Williams St., N. Y.
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.
Ralston Purina Co., 835 S. 8th St., St. Louis
Reasor-Hill Corp., Jacksonville, Ark.
Riverdale Chem. Co., 324—174th St., Harvey, Ill.
Shell Chemical Corp., 500 5th Ave., N. Y. 18
Sherwin-Williams Co., 101 Prospect Ave., N.W.,
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Southwest Co-operative Wholesale, 1821 E. Jackson St.,

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Stauffer Chem. Co., 420 Lexington Ave., New York
Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,
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Tyner-Petrus Co., 100 Trenton St., West Monroe, La.
F. H. Vahlsing, Inc., Elsa, Texas
Woolfolk Chemical Works, Fort Valley, Ga.

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Jefferson Chemical Co., 260 Madison Ave., N. Y. 16 Sharples Chemicals, Inc., 123 S. Broad St., Phila.

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(see also Brokers and Dealers)

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Monsanto Chemical Co., 1700 S. 2nd St., St. Louis Rosenthal Bercow Co., 25 E. 26th St., N. Y. Jos. Turner & Co., Ridgefield, N. J. Victor Chemical Works, 141 W. Jackson Blvd., Chicago Virginia-Carolina Chemical Corp., Richmond, Va. Welch, Holme & Clark Co., 439 West St., N. Y. Westvaco Chem. Div., Food Machy. & Chem. Corp., 405 Lexington Ave., N. Y.

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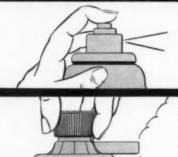
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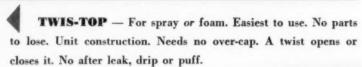
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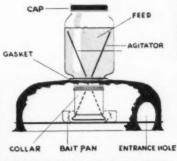
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|                | CROWN<br>WAX No. | TYPE                   | MELTING<br>POINT °F | PENETRATION | N.P.A. | ACID<br>No. | SAP.<br>No. |
|----------------|------------------|------------------------|---------------------|-------------|--------|-------------|-------------|
|                | 15               | OXIDIZED<br>MICROCRYST | 180 min.            | 4-6         | 4-5    | 14-16       | 50-60       |
| MANUFACTURE    | 23               | 250                    | 160 min.            | 4-6         | 4-5    | 20-25       | 55-65       |
|                | 36               | C S                    | 180 min.            | 5-7         | 5-6    | 30-35       | 75-85       |
|                | 50               | 0 2                    | 180 min.            | 3-5         | dark   | 10-20       | 65-75       |
| RESEARCH       | 180              | 쁘                      | 180 min.            | 15 max.     | 2-21/2 | Nil         | Nil         |
|                | 200              | 31                     | 190 min.            | 8 max.      | brown  | 8.6         | 44          |
|                | 500              | 5                      | 190 min.            | 8 max.      | 2-21/2 | 8.6         | 44          |
| ECONOMY        | 700              | MICROCRYSTALLINE       | 190 min.            | 4 max.      | 2-21/2 | 44          | 44.         |
|                | 1035             | 5                      | 195 min.            | 2 max.      | 2-21/2 | 44          | 46          |
| SPECIFICATIONS | JET BLACK        | _                      | 185 min.            | 11-16       | black  | 66          | 45          |
|                | ESTAWAX 2        |                        | 210 min.            | 2 max.      | 3 max. | 44          | 45          |
|                | ESTAWAX 2        | 5 H                    | 210 min.            | 2 max.      | 3 max. | 6.6         | 44          |

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|---|------|-----------------------|---------------------------------|
| Ă | L-20 | 6.50                  | 6.15                            |
|   | L-30 | 6.50                  | 6.15                            |
|   | L-40 | 6.50                  | 6.15                            |
|   | L-50 | 5.50                  | 5.20                            |

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## **U. S. Government Specifications**

General requirements of U.S. Federal Specifications for soaps, cleaners, detergents, polishes, insecticides, etc.

#### Disinfectant, Germicide, and Fungicide O-D-406 (Navy Ships) (Interim)

This specification covers disinfectant, germicide and fungicide for general disinfection, but not for use in sanitization of food handling equipment. The disinfectant shall be of the following concentrations and classes:

Concentration A-Single strength.

Class 1—Colorless. Class 2—With dye.

Concentration B—Ten times single

Concentration C—Thirty times single

Disinfectant furnished under this specification shall be a product which has been tested and passed the qualification tests specified.

Unless otherwise specified, the disinfectant shall be furnished in liquid form; water being the principal solvent.

It shall not contain mercury compounds.

Single strength disinfectant shall destroy the following bacteria within 10 minutes at 20°C. (68°F.) when diluted as indicated: Eberthella typhosa (Hopkins strain) diluted by volume in water

1:1000, in a 10 per cent solution of normal horse-blood serum in water 1:200; Staphylococcus aureus (F.D.A. No. 209) in water 1:1000, in horse-blood serum 1:200; Trichophyton rosaceum (No. 659 Sabouraud) in water 1:200.

With trisodium phosphate the disinfectant shall destroy Eberthella typhosa (Hopkins strain) and staphylococcus aureus (F.D.A. No. 209) in a 1:200 dilution within 10 minutes.

An intraperitonial injection of 0.3 milliliter of single strength disinfectant per kilogram of body weight shall not kill more than 5 of a test group of 10 rats.

Single strength disinfectant shall not cause dermatitis when diluted.

A 1:100 dilution of single strength disinfectant in distilled water shall show a pH of not less than 6.5 or more than 10.0 at 25°C, (77°F.).

A 1:100 dilution of single strength disinfectant shall show no more deleterious effects than a 2 per cent solution of liquid cresolis saponatus on plastics and rubber.

A 1:200 dilution of single strength disinfectant in distilled water shall be substantially odorless.

Single strength disinfectant shall not show appreciable loss in germicidal action during 1 year of storage under normal service conditions.

A 1:50 dilution of single strength disinfectant in distilled water shall form practically clear solutions.

Ten times single strength disinfectant, when diluted to single strength, i.e., 1 volume grade B diluted with 9 volumes distilled water, shall conform to the requirements specified.

Thirty times single strength disinfectant, when diluted to single strength, i.e., 1 volume grade C diluted with 29 volumes distilled water, shall conform to the requirements specified.

#### Insecticides, Aerosol, Low Pressure (12-ounce Dispenser) O-I-00508 (GSA-FSS) (Interim)

Insecticides, aerosol, 12 oz. dispenser, covered by this specification are intended to be used against mosquitoes, flies and other small flying insects, and shall be of the following types:

Type I—Allethrin and DDT. Type II—Pyrethrins and DDT.

The insecticide shall comprise the following ingredient materials in the proportions by weight:

#### TYPE I

| Ingredients Pe                                             | er Cen |
|------------------------------------------------------------|--------|
| Allethrin*, conforming to 3.1.8                            | 0.6    |
| Dichlorodifluoromethane,<br>conforming to 3.1.2            | 2.0    |
| Aromatic petroleum derivative solvent, conforming to 3.1.4 | 5.0    |
| Deodorized kerosene*, conforming to 3.1.5                  | 7.4    |
| Dichlorodiphonyltrichloroethane, conforming to 3.1.6       | 42.5   |
| Trichloromonofluoromethane, conforming to 3.1.7            | 42.5   |

\*The deodorized kerosene percentage content shall include the related products from the technical allethrin.

#### TYPE I

| TYPEII                           |     |      |
|----------------------------------|-----|------|
| Ingredients                      | Per | Cent |
| Pyrethrum extract, conforming    |     |      |
| 3.1.1                            |     | 2.0  |
| Dichlorodiphenyltrichloroethane, |     |      |
| conforming to 3.1.2              |     | 2.0  |
| Piperonyl butoxide, conforming   | ng  |      |
| to 3.1.3                         |     | 1.0  |
| Aromatic petroleum derivati      | ve  |      |
| solvent conforming to 3.1.4      |     | 5.0  |

ONLY the essential requirements of these government specifications have been extracted in our summary. Copies of the complete specifications, including details as to packaging, methods of analysis, etc., are available through the General Services Administration. The specifications listed are the latest versions as of the date of compilation of this edition of the Blue Book. Readers are cautioned, however, that further changes are being made periodically, and that the latest amended versions of all specifications should be consulted in filling government orders. P-S-536B, the Federal Specification titled "Soap and Soap-Products (Including Synthetic Detergents); Methods of Sampling and Testing," particularly should be consulted.

#### -PIPERONYL BUTOXIDE REQUIREMENTS (D-1-00508) —

|                                      | Minimum<br>Per Cent | Maximum<br>Per Cent |
|--------------------------------------|---------------------|---------------------|
| Benzyl butyl diethylene glycol ether |                     |                     |
| (3,4 methylene dioxy-6-propyl)       |                     |                     |
| Specific gravity at 25°C, (Note 1)   | . 1.05              | 1.07                |
| Refractive Index at 20°C. (Note 2)   | . 1.497             | 1.512               |

Note 1.—Determined by any suitable method accurate to 0.001.

Note 2.-Determined by an Abbe Refractometer or equivalent instrument at 20°C.

| Deodorized kerosene, conforming |      |
|---------------------------------|------|
| to 3.1.5                        |      |
| Dichlorodifluoromethane,        |      |
| conforming to 3.1.6             | 42.5 |
| Trichloromonofluoromethane,     |      |
| conforming to 3.1.7             | 42.5 |

The pyrethrum extract shall contain 20% pyrethrins and conform in all details to Federal Specification.

The dichlorodiphenyltrichloroetnane (DDT) shall conform in all details to grade B as specified in Federal Specification with not more than .01% trichloromonofluoromethane insoluble material.

Piperonyl butoxide shall conform to the requirements in the accompanying table.

The aromatic petroleum derivative solvent shall be a purified petroleum product containing only mono,di and tri-cyclic aromatics. The product shall contain no toxic materials. The product shall conform to the following requirements when tested as specified:

Color.-Not more than 4.0 Union

Colorimeter.

Specific gravity API.-9-22. Water content.-None.

Flash point.-150°F. minimum. Initial boiling point .- 300°F. minimum.

Final boiling point .- 650°F. Solvent power for DDT at 74°F .-

35 gm./100 ml. The deodorized kerosene shall meet

the following requirements. Appearance.-Clear and free from sus-

pended matter. Color.-Not less than plus 20 (Saybolt

chromometer). Distillation range.-Initial boiling point. Not less than 350°F. End point not above 500°F.

Residue from distillation .- Neutral. Flash point-Not less than 125°F. (Closed cup).

Odor.-Free from kerosene odor and practically free from all odor.

Residual odor .- None.

Unsuifonated residue .- 96% minimum. The dichlorodifluoromethane shall conform to the detailed requirements specified in Federal Specification.

The trichloromonofluoromethane shall conform to the detailed requirements specified in Federal Specification.

The technical allethrin shall contain not less than 75% allethrin nor more than 8.0% total free acidity when calculated as chrysanthemum monocarboxylic acid. The material shall have not more than 0.5% dichlorodifluoromethane insoluble material as determined by the method described.

Each container shall contain not less than 12 ounces of the insecticide, propellant and solvent mixture and shall contain not more than 80 ppm of water.

The finished insecticide propellant and solvent mixture in type I shall contain not less than 0.6% allethrin based on the analysis of the technical allethrin.

The finished insecticide propellant and solvent mixture shall in type II contain not less than 0.40% by weight of pyrethrins.

The finished insecticide, propellant and solvent mixture shall, in type I and type II, contain not less than 2.0% weight of dichlorodiphonyltrichloroethane (DDT).

The insecticide shall be mixed by a suitable process to produce a homogene ous mixture. The finished product shall be clean and uniform, and free of any defects which might impair its utility such as sediment, metal, or other foreign particles in the container, production tube and valve assembly. The exterior orifice shall be symmetrical and free of ragged edges. The exterior orifice if drilled, shall be symmetrical and in direct alignment with angle of discharge. Dispenser filling shall be carried out at a relative humidity equivalent of not more than 30 per cent at 70°F.

#### Insecticide, DDT (Solution, Residual Effect) O-I-531a

The insecticide solution covered by this specification is designed as an oilbase residual insecticide to provide continuing protection against flies, mosquitoes, bedbugs, and other flying and crawling insects, and shall be of one type and one grade.

The insecticide shall comprise the following ingredient materials in the specified proportions by weight:

| Dichlorodiphenyltri- | Per Cent     |
|----------------------|--------------|
| chloroethane (DDT)   | $5 \pm 0.1$  |
| Kerosene             | $80 \pm 0.2$ |
| Auxiliary solvent    | $15 \pm 0.2$ |

DDT shall conform in all respects to grade B of Federal Specification. The finished spray shall contain 25 mg. ± 0.5 mg. of chlorine per gram of solution.

Kerosene shall conform to the requirements of Federal Specification and shall contain no organic chlorine when tested. Auxiliary solvent shall contain no

organic chlorine and shall consist principally of aromatic hydrocarbons having the properties specified. Auxiliary solvents shall not add an objectionable odor to the finished spray.

There shall be no residual stain when the auxiliary solvent is tested.

The finished insecticide shall show no sedimentation, and the color shall not exceed Union Colorimeter color No. 2.0.

The product shall be clean and uniform, and free of any defects which might impair its utility.

#### Insecticide, Lindane (Emulsifiable Concentrate) O-I-00533 (GSA-FSS) (Interim)

The liquid insecticide concentrate covered by this specification is designed to be diluted with the specified amount of water and used as a residuary spray for the control of mosquitoes, flies, sand flies, roaches, ants, mites, ticks and fleas. It shall be of one type and grade.

The liquid insecticide concentrate shall comprise the following ingredient materials in the specified proportions by weight:

|                               | Per Cent     |
|-------------------------------|--------------|
| Lindane                       | $20 \pm 0.2$ |
| Emulsifying agent, minimum    | 7.5          |
| Aromatic petroleum derivative |              |
| solvent                       | 32.5         |
| Isophorene, minimum           | 40.0         |

The lindane shall be the gamma isomer of 1,2,3,4,5,6-hexachlorocyclohexane of a purity not less than 99 per cent. It shall be a white crystalline substance having a melting point of not less than 112°C. Conformance with these requirements shall be certified by the manufac-

The emulsifying agent shall be completely soluble in the finished insecticide concentrate; shall be stable in the presence of lindane; shall not cause breakdown of the lindane; and shall meet the emulsification test described. The emulsifier shall contain not more than .30 per cent water.

Conformance with the requirements of this paragraph shall be certified by the manufacturer in a certificate of compliance to the contracting officer.

The aromatic petroleum derivative solvent shall have the properties specified when tested, as also the isophorene.

The finished product shall be a clear, homogeneous solution, free of sediment, and there shall be no separation of solid or liquid phase when tested for homogeneity.

The emulsion formed shall show not more than 2 ml. of creamy layer separation and no oil separation when tested at 80° ± 5°F., 30 minutes after formation and after reformation.

The flash point of the finished insecticide concentrated shall be not less than 140°F

The insecticide concentrate shall give a color reading of not more than 4.0 on the Union colorimeter.

The insecticide concentrate shall con-

|                               | Per Cent by Weight |             |
|-------------------------------|--------------------|-------------|
| Ingredients                   | Minimum            | Maximum     |
| Type I:                       |                    |             |
| Pyrethrins                    | 0.08               | 0.12        |
| Piperonyl butoxide, technical | 0.75               | 0.85        |
| DDT                           | 0.95               | 1.05        |
| Odor neutralizer              | 0.04               | 0.06        |
| Deodorized kerosene           |                    | 00 per cent |
| Type II:                      |                    |             |
| Allethrin                     | 0.15               | 0.18        |
| Piperonyl butoxide, technical | 0.75               | 0.85        |
| DDT                           | 0.95               | 1.05        |
| Odor neutralizer              | 0.04               | 0.06        |
| Deodorized kerosene           | To make 1          | 00 per cent |
| Type III:                     |                    | F           |
| Pyrethins                     | 0.08               | 0.12        |
| Piperonyl butoxide, technical | 0.75               | 0.85        |
| Odor neutralizer              | 0.04               | 0.06        |
| Deodorized kerosene           | To make 1          | 00 per cent |

tain 146 ± 2 milligrams of chlorine per gram.

The finished product shall have a pH of not more than 7.5.

The finished product shall not contain more than 0.15 per cent water.

The product shall be clean and uniform and free of any defects which might impair its utility.

#### Insecticide; Liquid (for Roaches and Carpet Beetles) O-I-546a

Liquid insecticide, as specified, shall be furnished in one type and one grade.

The manufacturer is permitted latitude in the selection of raw material and processes of manufacture to meet the requirements of the specification, provided that the specified amount of pyrethrins shall be present.

The liquid insecticide shall not cause irritation to man nor be poisonous to man when applied in the usual manner in the destruction of common household insects, shall have no greater detrimental action upon metal or paint (paint, enamel, varnish, lacquer, etc.) surfaces than the "specified" solvent, and shall have no objectionable odor.

The liquid insecticide shall be formulated from a petroleum distillate base, free from kerosene odor and practically free from all odor, and shall be clear and free from suspended matter. There shall be not less than 0.13 gram of pyrethrin I with the normally accompanying amount of pyrethrin II in 100 milliliters of the liquid insecticide. Any additional ingredients which when incorporated in the product will comply with the requirements of the specification may be used to bring the strength of the product up to the performance requirements.

The liquid insecticide shall meet the following requirements:

Initial boiling point ... Not below 350°F.

End point .... Not above 530°F.

The flash point shall be not less than 125°F. (closed cup).

When tested in accordance with the specification, no residual odor shall be present.

The insecticide shall meet the staining properties and corrosion tests specified.

properties and corrosion tests specified. The "diluted" liquid insecticide shall be not more than 2 per cent below the "comparison" insecticide in "average percentage knock-down" and at least equal to "average percentage kill" of the "comparison" insecticide when tested in accordance with the method specified.

#### Insecticides, Liquid, Space Spray O-I-551a

The insecticides covered by this specification are designed to spray in enclosed spaces either directly on flies and mosquitoes or into air in which they are flying.

The insecticides shall be of but one grade, and the following types (in deodorized kerosene), as specified:

Type I.—Pyrethrins and DDT.

Type II—Allethrin and DDT.

Type III.—Pyrethrins.

The insecticide shall comprise the ingredient materials in the specified proportions in the accompanying table.

When specified in the contract or purchase order, other synergists may be substituted for piperonyl butoxide.

Pyrethrum extract shall dissolve in deodorized kerosene to form a clear solution. The pyrethrin content shall be determined as specified.

Piperonyl butoxide shall be of the technical grade containing not less than 80 per cent alpha—[2-(2-butoxyethoxy) ethoxy]—4, 5-methylenedioxy-2-propyltoluene, also named (butyl carbitol) (6-

propyl piperonyl) ether. It shall conform to the following requirements:

Min. Max. Specific gravity, 25°/25°C. 1.05 1.07 Refractive index at 20°C.. 1.497 1.512

The piperonyl butoxide content of the finished insecticide shall be determined as specified.

DDT shall conform to the requirements for grade B of Federal Specification. The finished insecticide shall be tested as specified and shall contain 5 mg.  $\pm$  0.25 organic chlorine per gram of solution.

The technical grade allethrin shall contain not less than 75 per cent by weight of allethrin nor more than 8.0 per cent total free acidity calculated as chrysanthemum monocarboxylic acid. The finished insecticide shall contain not less than 0.15 per cent by weight of allethrin based on analysis of technical grade and weight records.

The odor neutralizer shall be of a grade in commercial use and shall impart a pleasing or neutral odor to the finished insecticide. Only those odor neutralizers which have been approved at time of invitation for bids will be permitted.

Deodorized kerosene shall be free from kerosene odor and practically free from all odor, shall be clear and free from suspended matter and shall conform to the requirements in the accompanying table.

The product shall be clean and uniform, and free of any defects which might impair its utility.

#### Insecticide, 75 Percent DDT Water-Dispersible Powder O-I-568

This specification covers one grade of insecticide, water-dispersible powder, 75 per cent dichlorodiphenyltrichloroethane (DDT).

It shall be prepared from dichlorodiphenyltrichloroethane (DDT) together with such biologically inert modifying and conditioning agents as are needed to meet the requirements.

Dichlorodiphenyltrichloroethane (DDT) shall conform to the requirements for grade B of Federal

Specification.

The finished insecticide shall contain not less than 36.0 per cent organic chlorine when tested as specified, shall be free flowing, of a light color such as white, cream, or light gray, and shall be

#### -DEODORIZED KEROSENE REQUIREMENTS (O-I-551a)-

| Distillation range:                   |                         |
|---------------------------------------|-------------------------|
| Initial boiling point, minimum, °F    | 350                     |
| End point, maximum, °F                | 500                     |
| Flash point, minimum, °F              | 125                     |
| Color                                 | Not more than extremely |
|                                       | slight discoloration 25 |
|                                       | Saybolt minimum         |
| Residual odor                         | None                    |
| Unsulfonated residue per cent minimum |                         |

readily wettable with water to provide dispersions suitable for use as residual-

effect insecticide sprays.

Any foam built up in the preparation of test suspensions shall not have such copiousness, stability, or other properties as would prevent the completion of the

The surface-mean particle diameter of the insecticide powder shall be not greater than 5.0 microns.

Not less than 98 per cent of the insecticide powder shall pass through a 74-micron (U. S. Standard No. 200) sieve, and not less than 100.0 per cent shall pass through a 1,000-micron (U. S. Standard No. 18) sieve.

Not less than 95 per cent of the insecticide powder incorporated in a suspension shall pass through a 250-micron (U. S. Standard No. 60) sieve.

A suspension prepared and tested as specified shall have a pH value not lower than 5.0 and not higher than 10.0. If pH is 8.0 or above, not more than 10.0 ml. of half normal by dichloric acid shall be required to neutralize the alkalinity of a 20.0-gram sample when titrated.

The product shall be clean and uniform and free from any defects which may

impair its utility.

#### Insecticide Powder, Dusting O-I-578

Insecticide dusting powder covered by this specification shall be of but one grade as specified and shall contain only the

material specified.

The finished insecticide powder shall be of free-flowing material devoid of lumps, of such fineness that not less than 99 per cent shall pass the U. S. Standard 80 (177-micron) sieve (dry test).

The finished insecticide powder shall have a surface mean particle diameter of not more than 5 microns.

It shall consist of 10 per cent by weight of active ingredient and the remainder of diluent. When specified, 0.1 per cent by weight of the coloring agent 1-(2, 4 dinitrophenylazo)-2 naphthol shall be added.

The active ingredient shall be technical-grade dichlorodiphenyltrichloroethane, hereinafter referred to as DDT, and shall conform to the requirements of Federal Specification.

Insecticide powder shall contain not less than 9.5 nor more than 10.5 per cent by weight of DDT.

The melting point of the DDT which has been extracted from the insecticide powder in the manner described, shall be not less than 100°C, when tested.

The melting point of a mixture of equal weights of the extracted DDT product and pure recrystallized DDT shall be not less than 100°C.

When specified in the contract or order, the coloring agent shall be a coal-tar dyestuff which will yield a flesh color to the finished insecticide. The dyestuff shall be 1-(2,4-dinitrophenylazo)-2naphthol which shall be certified by the Food and Drug Administration as meeting specifications for Drug and Cosmetic

Orange No. 17 of Food and Drug Administration Service and Regulatory Announcement No. 3 "Coal Tar Regulations" of September, 1940. The finished insecticide shall yield no color in the water extract.

The diluent shall be either tale or

pyrophyllite.

The talc shall be of the laminar type and of such degree of fineness that not less than 90 per cent will pass a U. S. Standard No. 325 (44-micron) sieve (wet test) and not less than 99 per cent will pass a U. S. Standard No. 100 (149micron) sieve (dry test).

The pyrophyllite shall be of the same degree of fineness as specified for talc.

No more than 1.5 per cent by weight of the DDT present in the finished in-secticide powder shall be decomposed

after 1 hour.

The manufacturer shall, by a blending operation just prior to the filling of cans, establish uniform batches of not less than 2,000 pounds. These batches shall be given a control or batch number and shall be numbered serially. All samples or lots provided for testing or research purposes shall have each container individually marked with the appropriate batch number. This requirement shall not apply to purchases of less than 2,000 pounds.

The method employed in making insecticide powder shall be in accordance with the best commercial practice. The product shall be clean and uniformly blended and free from defects which

may impair its utility.

#### Insecticide; Liquid (Fly-Spray) O-I-541a

This spray is intended primarily for use against flies but if properly and thoroughly applied directly to the insects, it will control mosquitoes, bedbugs, ants, fleas, and clothes moth larvae.

It shall be furnished in one type and one grade.

The manufacturer is permitted latitude in the selection of raw materials and processes of manufacture to meet the requirements of this specification.

The liquid insecticide shall not cause irritation to man nor be poisonous to man when applied in the usual manner in the destruction of house flies, shall have no greater detrimental action upon metal or paint (paint, enamel, varnish, lacquer, etc.) surfaces than the specified solvent. and shall have no objectionable odor.

It shall be formulated from a petroleum distillate base, free from kerosene odor and practically free from all odor, and shall be clear and free from suspended matter and shall contain other ingredients to make its performance equal to or to exceed the performance requirements.

The liquid insecticide shall meet the following requirements:

Initial boiling point....Not below 350°F. 

The flash point shall be not less than 125°F. (closed cup).

When tested in accordance with specification, no residual odor shall be present. It shall meet staining properties and

corrosion tests specified.

The liquid insecticide shall be not more than 2 percentage points (units of difference between the percentage kill or knock-down by the "comparison" insecticide and the percentage kill or knockdown by the unknown) below the "com-parison" insecticide in "average percentage knock-down" and shall be 16 percentage points or more above the "comparison" insecticide in "average percent-age kill" when tested in accordance with the method specified.

#### Red Squill Powder O-R-171

Red squill powder covered by this specification shall be of one grade as hereinafter specified. It shall consist of the dry powdered fleshy inner bulb scales of the red variety of Urginea maritima, fortified when necessary with the alcohol-soluble extract of the same, and free from any other modifying agents, diluents, or adulterants.

The physical and toxic properties shall conform to the following requirements: Moisture-4.0 per cent, maximum; Particle size-100 per cent shall pass a 30mesh U. S. Standard screen (dry test); Toxicity-The powder shall kill not less than 50 per cent of standard male rats fed 500 milligrams per kilogram body weight when assayed at an altitude not to exceed 5,300 feet above mean sea level.

#### Insecticide-Concentrate; Liquid Water-Emulsifying (DDT-Nonexplosive Solvent-Emulsifying Agent) O-I-558

Liquid insecticide-concentrate covered by this specification shall be of one grade as specified.

It shall contain at least 25.0 grams of DDT conforming to the requirements for grade B of Federal Specification per 100 milliliters, a suitable emulsifier in such concentration as will enable the concentrate to meet the requirements of this specification, and a suitable solvent.

When specified in invitation for bids, each bidder shall submit a 1-gaflon sample of the insecticide-concentrate which he proposes to furnish, for the purpose of determining compliance with the requirements of this specification.

The insecticide-concentrate shall be clear, homogeneous, and free from particles of undissolved DDT crystals or foreign matter. The appearance of the concentrate shall not be affected when tested as specified.

It shall contain a minimum of 120 milligrams of chlorine per milliliter, when tested as described.

When tested as described, the emulsions formed shall show not more than 5 milliliters of separation when tested at 80°F., nor more than 10 milliliters of separation when tested at 120°F., 30 minutes after formation and after reformation.

The flash point of the finished concentrate shall be not below 140°F.

There shall be no residual stain when the insecticide-concentrate is tested.

There shall be no more than a slight, mild residual odor when tested.

The solvent shall have an initial point not less than 300°F., and an end point not higher than 550°F.

The insecticide-concentrate shall cause no more than a slight discoloration of mild steel strips and shall cause no crazing or softening of strips of polymethyl methacrylate, when tested as described.

#### Cleaner; For Painted Surfaces, Containing Synthetic Detergent P-C-431

Cleaner for painted surfaces covered by this specification shall be of one grade only, and of the following types: Type I.—Powder; Type II.—Flake; Type III. —Liquid; Type IV.—Paste

The cleaner shall be a uniform, homogeneous product, free from any objectionable odor, and consisting essentially of synthetic organic detergents. It shall contain no abrasives or fatty acid soaps and shall not be irritating to the skin.

The cleaner shall be satisfactory for use in cleaning operations with soft, hard, or sea water. It shall be stable and not lose effectiveness or otherwise deteriorate when stored in a closed container at normal temperatures.

The pH value of a 1.0 per cent distilled water solution (by weight) of the cleaner shall be not less than 5.5 nor more than 10.0.

The cleaner shall be completely soluble in distilled water and shall be free-rinsing.

A 0.2 per cent (by weight) solution of the cleaner shall not cause greater than one-half the loss in specular gloss of painted surfaces caused by a 0.2 per cent solution of trisodium phosphate.

A solution of 50 grams of cleaner per liter, in distilled or sea water, shall exhibit a cleaning efficiency of not less than 80 per cent, when tested as described.

#### Compound; Cleaning, Soap-Abrasive-Type (For Painted Surfaces) P-C-565

Compound, cleaning, shall be furnished in one type and one grade. The cleaning compound shall have no

The cleaning compound shall have no objectionable odor and shall not be harmful to the hands.

As received, it shall be a uniform soft paste and shall meet the following requirements:

Matter volatile, at 105°C., shall not exceed 65 per cent, by weight.

It shall contain not more than 0.1 per cent, by weight, free alkali calculated as NaOH and shall contain not more than 0.5 per cent, by weight, free acid calculated as oleic acid.

Alkaline salts, calculated as Na<sub>2</sub>CO<sub>2</sub>, shall not exceed 5 per cent, by weight. Insoluble siliceous matter shall be not less than 25 per cent nor more than 50 per cent, by weight. All of the insoluble siliceous matter shall pass through a No. 80 sieve; and not more than 15 per cent of the insoluble siliceous matter shall be retained on a No. 200 sieve.

Anhydrous soap shall be not less than 3.5 per cent, by weight.

#### Rodenticide; Fumigant Dust (42 Percent Calcium Cyanide Dust) O-R-501

Fumigant dust rodenticide covered by this specification shall be of one grade. A technical grade of fumigant dust rodenticide shall be essentially produced in accordance with best commercial practice.

The chemical and physical properties shall conform to the following requirements: Calcium cyanide—42.0 per cent, min.; Particle size—98.0 per cent shall pass a 100-mesh U. S. standard screen; Inert material—58.0 per cent, maximum.

# Detergents, Special; (for Aluminumware, Dishwashing-Machines, and Manual Cleaning) P-D-236

Detergents for aluminumware shall be of the following types and classes:

Type I—Detergent for use in mechanical dishwashing machines.

Type II-Detergent for manual cleaning.

Class A. Nonabrasive cleaner.
Class B. Abrasive cleaner.
Type I shall be suitable for use in

mechanical dishwashing machines and shall be substantially uniform in appearance throughout. It shall be free from objectionable odor, and shall dissolve readily in tepid water. Cleaner may be supplied in either powder, granule, chip, or liquid form.

Type II, Class A shall be suitable for any type of manual washing where abrasiveness is not desired, and shall be substantially uniform in appearance throughout. It shall be free from objectionable odor, and shall dissolve readily in tepid water. Cleaner may be supplied in either powder, granule, chip, or liquid form.

powder, granule, chip, or liquid form.

Type II, Class B shall be suitable for any use requiring a manual cleaner where soil adheres too tenaciously for nonabrasive cleaners. It may be supplied in the form of a liquid, a solid, a paste, or a combination of any two of the above. Combinations of metal wools and soaps may be supplied. The cleaner shall be free from objectionable odor and from poisonous or irritant chemicals.

Type I shall conform to the following detail requirements: When tested, the weight of the precipitate obtained shall

be less than 20 mg. for 250 ml. of solution; no foam or suds shall be detected; detergent solution shall be without visible action on bare or anodic oxidecoated aluminum alloy; a suds which is stable for not less than 5 minutes shall be formed; the detergent solution shall have an initial pH of not less than 10.0, and shall have a pH of not less than 9.0 after the addition of the specified amount of hydrochloric acid solution; the material shall clean satisfactorily, the relative cost of the detergent shall be determined from the product of the delivered price per pound of the detergent and the number of pounds of the detergent required to treat 1,000 gallons of water containing 10 grains (171 p.p.m.) per gallon of hardness, calculated as CaCOs.

Type II, Class A, shall conform to the following requirements: The turbidity of the cleaner solution shall conform to the test described. When tested the cleaner solution shall be without visible action on bare or anodic oxide-coated aluminum alloy; a suds which is stable for not less than 5 minutes shall be formed; the pH of a 1-per cent solution by weight of the cleaner in distilled water shall not exceed 10.5; the material shall clean satisfactorily; the relative cost of the cleaner shall be determined from the product of the delivered price per pound of the cleaner and the number of pounds of the cleaner required to treat 1,000 gallons of water which contains 10 grains (171 p.p.m.) per gallon

of hardness, calculated as CaCO<sub>a</sub>.

Type II, Class B, shall conform to the following detail requirements: When tested the cleaner shall produce no undesirable scratching, and shall be without visible action on bare or anodic oxide-coated aluminum alloy; when tested the cleaner shall be removed completely from a glass plate and shall clean satisfactorily.

#### Compound; Grease-Cleaning, Solvent-Emulsion-Type P-C-576

Grease-cleaning compound of the solvent-emulsion-type, shall be furnished in one grade and in the following types: Type I—Nonphenolic; Type II—Phenolic, Both shall be a uniform liquid.

Detailed requirements for type I are: the flash point shall be not less than 200°F. (open cup); the compound shall have a neutralization number of not more than 8 (mg. of KOH to neutralize 1 gm. of compound); shall have no free alkali; the pour point shall be not more than 35°F.: the loss in weight shall be not more than 10 per cent after a 24-hour period; and shall be free from phenols.

Type I shall meet stability of emulsion test specified and the test for solubility in kerosene and in water.

Detailed requirements for Type II are: the flash point shall be not less than 200°F. (open cup); shall have a neutralization number of not more than 8 (mg. of KOH to neutralize 1 gm. of compound); shall have no free alkali; the pour point shall be not more than 35°F.; the loss in weight shall be not more than 10 per cent after a 24-hour period; and the material shall contain not less than 15 per cent nor more than 25 per cent phenols, by volume and shall pass the phenol (C<sub>6</sub>H<sub>8</sub>OH) limitation test.

Type II shall meet stability of emul-

Type II shall meet stability of emulsion and solubility in kerosene and in

water tests.

#### Detergents, Hand; Paste and Powder, for Mechanics' Use P-D-221b (Navy Ships) (Interim)

This specification covers paste and powder hand detergents for removing oil, grease and other occupational soils.

The detergents shall be of the following types: Type I—Hand grit-paste detergent. Type II—Hand scouring powder with mineral abrasive. Type III—Hand scouring powder with vegetable abrasive.

Hand detergents, paste and powder, furnished under this specification shall be a product which has been tested and has passed the qualification tests specified.

Type I detergent shall be a uniform mixture of detergents and mineral abrasives in paste form.

Type II detergent shall be a uniform, free-flowing, non-stratifying mixture of detergents and mineral abrasives in powder form.

Type III detergent shall be a uniform, free-flowing, non-stratifying mixture in powder form of clean cornmeal, thoroughly saponified soap and/or active salt-free synthetic detergent, and lanolin. The mixture shall contain no rosin, sugar, pine oil, nor mineral abrasives, such as lava, pumice, sand, quartz, etc.

Hand detergents shall be mildly perfumed so as to produce a pleasant odor. The hand detergents shall conform in

composition to the accompanying table. The hand detergents shall produce not less than 100 milliliters foam.

A solution of type III hand detergent prepared as specified shall have a pH of between 9.5 and 10.0. The addition of 2 milliliters of 0.1N hydrochloric acid to this solution shall not reduce the pH to below 9.0 at 25°C.

#### Glass Cleaner, Liquid P-G-406

Liquid glass cleaner covered by this specification is intended primarily for use on windshields, windows and other glass surfaces and is not intended for use on transparent plastics. It shall be of but one grade and of the following types: Type I.—Regular; Type II.—Antifogging.

The component raw materials in the compound shall be suitable for the purpose intended and as specified hereinafter, and shall not include dyes, waxes, perfumes, ammonia, or inorganic alkalies

It shall be stable under ordinary conditions of storage and handling and shall show no tendency to decompose, emulsify, or separate into layers at normal temperatures.

It shall be nonirritating to the skin and shall contain no toxic ingredients other than denaturants for alcohol.

The odor shall be no more objectionable than the comparison solution specified.

The flash point of the liquid shall be not less than 27°C, (80°F.).

The pH value of the liquid shall be not less than 7.0 nor more than 9.0 at 25°C

The liquid shall not attack or produce more discoloration of aluminum alloys than that caused by the comparison solution.

The liquid shall not produce more softening, discoloration, or change in the surface appearance of enamel or lacquer finish than the comparison solution.

When the compound is properly applied to glass surfaces and polished, it shall leave the surface free from dust, grime, and ordinary soil material, and shall produce an appearance equal to or better than that produced by the comparison solution.

The residue on evaporation of 50 milliliters shall not exceed the following requirements:

#### Polish; Automobile, Liquid P-P-546

Polish, automobile, liquid, shall be furnished in one type and one grade.

The liquid automobile polish shall be suitable for use on lacquer, baked enamel, and synthetic enamel finishes and shall have no objectionable odor.

It shall be a stable aqueous emulsion containing a suitable abrasive in suspension. The polish shall be a free flowing fluid that can readily be applied with a cotton cloth and shall spread easily.

It shall meet the following requirements: nonvolatile matter (total solids) shall be not less than 25 per cent, by weight.

Ash content (based on nonvolatile matter shall be not less than 35 per cent nor more than 50 per cent, by weight; Free caustic alkali—none; the neutralization number of the polish shall be not more than 5; all of the material shall pass through a No. 200 sieve, and not less than 95 per cent (based on ash content) shall pass through a No. 325 sieve; the volatile matter shall be essentially water.

#### Powder; Scouring (for) Floors P-P-591a

Scouring powder for floors shall be of the following types: Type I.—For fine marble floors. Type II.—For tile or ceramic and terrazzo floors. Type III.—Soap scouring compound.

Scouring powder for floors shall be white or light gray unscented powder of

uniform composition.

Type I, for fine marble floors, matter volatile at 105° ± 2°C, shall not exceed 10.0 per cent; the sum of sodium carbonate (Na<sub>2</sub>CO<sub>3</sub>) and anhydrous soda soap and/or active anhydrous, salt-free, synthetic detergent shall not exceed 7.0 per cent nor be less than 2.0 per cent; free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent; insoluble siliceous material shall be not less than 85.0 per cent nor more than 95.0 per cent; all of the insoluble siliceous material shall pass through a No. 100 sieve, and the residue retained on a No. 200 sieve shall not exceed 5.0 per cent; the material shall not scratch or discolor marble.

Type II, for tile or ceramic and terrazzo floors; matter volatile at  $105^{\circ} \pm 2^{\circ}$ C.

| - COMPOSITION                                                                                                                               | N. P-I | D-221b ( | Navy Sh      | ips)—   |                     |       |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|--------------|---------|---------------------|-------|
|                                                                                                                                             |        | P        | er Cent l    | y Weigh | t                   |       |
|                                                                                                                                             | Tv     | pe I     | Typ          | e II    | Typ                 | e III |
| Characteristics                                                                                                                             | Min.   | Max.     | Min.         | Max.    | Min.                | Max.  |
| Matter volatile at 105° ± 2°C<br>Alkaline salts (calculated as sodium                                                                       |        | 55.0     |              | 5.0     | * * * *             | 11.0  |
| carbonate)                                                                                                                                  |        | 3.0      | 2.0          | 5.0     |                     | 7.7   |
| Hydroxide)                                                                                                                                  |        | 0.1      |              | 0.1     |                     | 0.1   |
| Free acid (calculated as oleic acid)                                                                                                        |        | 0.5      |              | 0.5     | ****                | 0.3   |
| Anhydrous soda soap and/or active salt-free synthetic detergents  Lanolin Matter insoluble in water Fineness of insoluble siliceous matter: | 8.0    | 50.0     | 17.0<br>60.0 | 76.0    | 24.5<br>5.0<br>45.0 | 55.0  |
| Per cent retained on:                                                                                                                       |        |          |              |         |                     |       |
| No. 40 sieve                                                                                                                                |        | none     | * * * *      | none    | ****                | ****  |
| No. 60 sieve                                                                                                                                | 10.0   | 20.0     | ****         | 5.0     |                     | ***   |
| No. 80 sieve                                                                                                                                | 30.0   | 45.0     | ****         |         | ***                 | ****  |
| No. 100 sieve                                                                                                                               | 35.0   | 55.0     |              | 30.0    |                     |       |
| No. 200 sieve                                                                                                                               | 60.0   |          | ****         | 60.0    | ****                | ****  |
| Fineness of finished detergent:                                                                                                             |        |          |              |         |                     |       |
| Per cent retained on:                                                                                                                       |        |          |              |         |                     | 10.0  |
| No. 20 sieve                                                                                                                                |        | ****     | * * * *      | ***     | 070                 | 10.0  |
| No. 100 sieve                                                                                                                               |        |          | ****         |         | 97.0                | ****  |
| Rosin                                                                                                                                       |        |          | ****         | 5.0     | ****                | none  |
| Sugar                                                                                                                                       | ****   | none     |              | none    | ****                | none  |

|                                       | Maximum<br>Per Cent | Minimum<br>Per Cent |
|---------------------------------------|---------------------|---------------------|
| Moisture and matter volatile at 105°C | d                   | ****                |
| sodium chloride                       |                     | ****                |
| Matter insoluble in water             | . 1.0               |                     |
| Anhydrous soap                        |                     | 85.0<br>39°C.       |
| Rosin                                 | . None              |                     |

shall not exceed 10.0 per cent: the sum of sodium carbonate (Na<sub>2</sub>CO<sub>2</sub>) and anhydrous soda soap and/or active anhydrous, salt-free, synthetic detergent shall be not less than 2.0 per cent; free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent; insoluble siliceous material shall be not less than 80.0 per cent nor more than 95.0 per cent; the insoluble siliceous material shall not yield more than 1.0 per cent of residue retained on a No. 60 sieve and not more than 10.0 per cent of residue retained on a No. 80 sieve.

on a No. 80 sieve.

Type III, soap scouring compound, matter volatile at 105° ± 2°C. shall not exceed 6.0 per cent; carbonated alkali, calculated as sodium carbonate (Na<sub>2</sub>CO<sub>8</sub>), shall be not less than 6.0 per cent nor more than 20.0 per cent; free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent; anhydrous soda soap and/or active anhydrous, saltfree, synthetic detergent shall be not less than 3.0 per cent nor more than 10.0 per cent; insoluble siliceous material shall be not less than 60.0 per cent nor more than 90.0 per cent; the insoluble siliceous material shall yield not more than 1.0 per cent of residue retained on a No. 60 sieve and not more than 10.0 per cent of residue retained on a No. 80 sieve.

#### Polish, Furniture, Liquid P-P-00552 (GSA-FSS) (Interim)

Liquid furniture polish covered by this specification shall be of one grade and the following types: Type I, liquid emulsion cleanser and polish, shall be a stable, colloidal emulsion of oil in water. Type II, clear oil polish, shall be a highly refined petroleum oil.

The polish shall be free from abrasives and shall be suitable for use on finished wood and metal surfaces. It shall be a free-flowing fluid that can be applied readily with a cotton cloth and easily spread and polished, leaving the surface free from oiliness or tack. It shall be free from any color or dye which would effect the surface on which it is used.

It shall have no objectionable odor.
Continued use of the product shall produce no abrasion or other undue wear on surfaces,

Oil (type I only) shall be not less than 40 per cent, by weight.

Water (type I only)—The fraction distilled between 100 and 110°C., plus the oil, shall be not less than 98.0 per cent.

There shall be no free caustic alkali (type I only).

The saponification number of type I (milligrams of potassium hydroxide per gram of sample) of the extracted oils shall not exceed 15. The saponification number of type II shall be not more than 0.5.

The neutralization number shall be not more than 0.1.

The flash point (type II only) shall be not lower than 157°C. (315°F.) and the fire point shall be not lower than 179°C. (354°F.).

The viscosity (type II only) shall be between 7 and 9 centistokes.

#### Soap; Chip P-S-566b

This specification covers a chip soap suitable for washing, cleaning, and scouring purposes with soft water, when the presence of alkaline salts is not desirable. It shall be of but one type.

Chip soap shall be a soap in chip form made from soda and fats, or fatty acids, without rosin, as free as possible from water and all substances other than true soap.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed, and reported by the testing laboratory, on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 10 per cent.

The soap shall have a light uniform

The odor shall not be objectionable in the soap as received, or in a hot water solution. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

#### Soap, Built, High-Titer, Powdered P-S-563

This specification covers a powdered, high-titer, built soap that is suitable for high-temperature laundering of all types of wearing apparel and linens except silk and woolens.

The composition of the soap shall conform to the requirements shown in the accompanying table.

The soap shall be a uniform mixture of soap and alkalies in powdered form. It shall be readily soluble in hot water and shall have a light uniform color.

The odor shall not be objectionable in the soap as received, or in a hot-water solution. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

# Hand Cleaner, for Use Without Water P-H-31 (Navy Ships) (Interim)

This specification covers hand cleaner for office or shop use.

Hand cleaner shall be of the following types:

Type I.—Duplicating ink remover. Type II.—Grease and grime remover. Hand cleaners shall be smooth, stable homogeneous materials which shall remain smooth and show no separation, rancidity or loss of effectiveness after (a) 16 hours of exposure (in closed issue containers) to  $60^{\circ} \pm 2^{\circ}$ C. then dropping to room temperature (25°  $\pm$  5°C.) and (b) 16 hours of exposure (in closed issue container) to minus 35°  $\pm$  2°C.

The pH value at 25° ± 5°C. of a 5 per cent by weight, aqueous solution of the cleaner shall fall within the values of 6.0 and 9.8.

and rising to room temperature.

The acid value of the cleaner shall be not more than 25.

The cleaner shall contain no free alkali and shall contain not more than 1.0 per cent by weight of alkaline salts calculated as Na<sub>2</sub>CO<sub>5</sub>.

The cleaner shall be free of grit and abrasives.

Cleaners shall be free of chlorinated

Use of the cleaner shall not leave a

|                                                                                   | Maximum<br>Per Cent | Minimun<br>Per Cent |
|-----------------------------------------------------------------------------------|---------------------|---------------------|
| Moisture and matter volatile at 105°C                                             |                     | 16.0                |
| Free alkali, calculated as sodium hydroxide (NaOH)                                |                     | 0.2                 |
| Alkaline salts, calculated as sodium carbonate (Na <sub>2</sub> CO <sub>3</sub> ) | 21                  | ****                |
| Matter insoluble in water                                                         |                     | 1.0                 |
| Chloride (calculated as sodium chloride)                                          |                     | 0.5                 |
| Anhydrous soap                                                                    | 56                  |                     |
| Titer of the mixed fatty acids prepared from the soap                             |                     |                     |
| Residue retained on a No. 12 sieve                                                |                     | 1.5                 |
| Passing through a No. 140 sieve                                                   |                     | 18.0                |

Unsaponifiable matter .....

Starch .....

-COMPOSITION-P-S-563-

None

None

#### COMPOSITION OF TYPE I GRIT SOAP (P-S-571b) ---

|                                                                 |           | by Weight |
|-----------------------------------------------------------------|-----------|-----------|
| Ingredient                                                      | Maximum   | Minimum   |
| Moisture and matter volatile at 105° ± 2°C                      | ****      | 5.0       |
| Anhydrous soap                                                  | 6.0       | 10.0      |
| Alkaline salts (calculated as Na <sub>2</sub> CO <sub>2</sub> ) |           | 1.5       |
| Free alkali (calculated as NaOH)                                |           | 0.1       |
| Free acid (calculated as oleic acid)                            | ****      | 5.0       |
| Sugar or other foreign matter                                   | None      | None      |
| Matter insoluble in water                                       | Remainder | Remainder |

#### -COMPOSITION OF TYPE II GRIT SOAP (P-S-571b)-

|                                                                 | Per Cent by Weight |           |  |
|-----------------------------------------------------------------|--------------------|-----------|--|
| Ingredient                                                      | Maximum            | Minimum   |  |
| Moisture and matter volatile at 105° ± 2°C                      |                    | 6.0       |  |
| Anhydrous soap                                                  | 8.0                | 12.0      |  |
| Alkaline salts (calculated as Na <sub>2</sub> CO <sub>2</sub> ) | ****               | 4.0       |  |
| Free alkali (calculated as NaOH)                                | ****               | 0.1       |  |
| Free acid (calculated as oleic acid)                            | ****               | 0.5       |  |
| Sugar or other foreign matter                                   | None               | None      |  |
| Matter insoluble in water                                       | Remainder          | Remainder |  |

sticky or otherwise undesirable coating on the skin.

Cleaner shall be free from objectionable odor and shall not leave an objectionable odor on the skin. The cleaner and any ingredient used in formulating the cleaner shall be free of odors characteristic of kerosene and similar petroleum products.

Type I hand cleaner shall be a smooth oil-in-water type emulsion which shall remove duplicating ink from the hands. The cleaner shall be mildly and pleasantly perfumed.

Type II hand cleaner shall be a smooth water-in-oil type emulsion which shall effectively remove grease type of soil from the hands.

When tested as specified the flash point of type II shall be not lower than 40°C. (104°F.).

#### Soap, Grit (Cake) P-S-571b

Grit cake soap covered by this specification shall be of the following types: Type I.—For fine work (such as required for cleaning glass and enamel ware). Type II.—For rough work (such as required for scouring and scrubbing purposes).

Grit soap shall be made from high quality soap and abrasives, uniformly mixed. Small amounts of other ingredients may be added to improve the quality of the soap.

Each cake of grit soap shall weigh not less than 9 ounces nor more than 10 ounces.

Grit soap, type I, shall be white in color. Grit soap, type II, shall be gray or tan.

The composition of the soap shall conform to the requirements shown in the accompanying tables.

The percentage of moisture and matter volatile at  $105 \pm 2^{\circ}$ C, shall be computed and reported as received. The percentages of all other constitutents shall be calculated and reported on an assumed moisture and volatile matter content of 4.0 per cent, in the case of type I and 5.0 per cent in the case of type II.

The material insoluble in water shall consist of not less than 85 per cent ground feldspar and shall be sufficiently fine that, when the soap and other soluble matter are extracted from the cake by digestion with water, 99 per cent of the material insoluble in water shall pass through a No. 100 sieve, and in the case of type I, 95 per cent shall pass through a No. 200 sieve.

Grit soap, type I, shall not scratch window glass or vitreous enameled surfaces.

The average loss in weight of the soap on immersion in water shall be not more than 10 per cent for type I and not more than 5 per cent for type II. Specimen cakes so tested shall show absence of crumbling, severe cracking, or other disintegration effects which indicate unsatisfactory serviceability of the product.

#### Soap; Toilet, Liquid P-S-618a

Liquid toilet soap shall be of but one type. It shall be a clear solution of pure vegetable oil potash (or potash and soda) soap with or without glycerol or alcohol, suitably perfumed, and free from all foreign matter. It shall quickly form a satisfactory lather and have no injurious effect and leave no objectionable odor on the skin.

The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The material shall not leave any objectionable odor on the skin or other surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

The material shall be a clear solution, free from objectionable odor, other than from coconut oil, and shall form a satisfactory lather; total anhydrous soap shall be not less than the equivalent of 15.0 per cent potash soap; total matter insoluble in alcohol shall not exceed 0.5 per cent; free alkali calculated as potassium hydroxide (KOH) shall not exceed 0.05 per cent; chloride calculated as potassium chloride (KCl) shall not exceed 0.3 per cent; more than traces of sulfates and sugar shall not be present.

#### Soap; Grit, Hand, Cake P-S-576a

Hand grit soap shall be a cake soap containing clean, finely divided insoluble siliceous matter, as free as possible from water, uncolored, mildly perfumed unless otherwise specified, and well compressed in firm, smooth cakes. It shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 25 per cent.

Unless otherwise specified, each cake shall weigh not less than 8 ounces nor more than 16 ounces.

#### Soaps, Liquid and Paste (Automobile, Floor, and General Cleaning) P-S-598b

This specification covers liquid and paste type soaps suitable for use in general cleaning with soft water.

Soap covered by this specification shall be of the following types and classes:

Type I.—Liquid.
Type II.—Paste.
Class A.
Class B.

Type I shall be uniform liquid soap made solely from whole neutral vegetable oils or distilled vegetable-oil fatty acids and potash.

Type II shall be a uniform gel or paste soap made solely from whole neutral vegetable oils or distilled vegetableoil fatty acids and potash, and shall con-

#### SOAP; GRIT, HAND, CAKE (P-S-576a) -

|                                                                   | Maximum<br>Per Cent | Minimum<br>Per Cent |
|-------------------------------------------------------------------|---------------------|---------------------|
| Moisture and matter volatile at 105°C                             |                     | ***                 |
| calculated as sodium carbonate (Na <sub>2</sub> CO <sub>2</sub> ) |                     | ****                |
| Free alkali, calculated as sodium hydroxide (NaOH)                | .1                  |                     |
| Insoluble siliceous material                                      |                     | 25.0                |
| Insoluble siliceous material retained on a No. 100 sieve          | 2.0                 | ****                |
| Insoluble siliceous material retained on a No. 200 sieve          |                     | ****                |
| Rosin                                                             | 5.0                 |                     |
| Sugar and foreign matter                                          |                     |                     |
| Anhydrous soap                                                    | ****                | 35.0                |

|                                                                                                                     |                             |                             |                             | $T_3$                       | peII                        |                             |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
|                                                                                                                     | Typ                         | eI                          | Clas                        |                             |                             | iss B                       |
|                                                                                                                     | Mini-<br>mum<br>Per<br>Cent | Maxi-<br>mum<br>Per<br>Cent | Mini-<br>mum<br>Per<br>Cent | Maxi-<br>mum<br>Per<br>Cent | Mini-<br>mum<br>Per<br>Cent | Maxi-<br>mum<br>Per<br>Cent |
| Moisture (toluene distillation method)<br>Total matter insoluble in alcohol<br>Free alkali, calculated as potassium | • • •                       | 0.5                         |                             | 55<br>1.0                   |                             | 60<br>1.0                   |
| hydroxide (KOH)<br>Free acid, calculated as oleic acid<br>Alkaline salts, calculated as potassium                   | •••                         | .05                         |                             | .1                          |                             | .1                          |
| carbonate (K <sub>2</sub> CO <sub>8</sub> )                                                                         | • • •                       | .1                          |                             | .2                          | ***                         | .2                          |
| chloride (KCl)<br>Unsaponified and unsaponifiable                                                                   | ***                         | .3                          |                             | .5                          | ***                         | .5                          |
| Anhydrous soap, calculated as potash                                                                                |                             | .4                          | 40                          | .8                          | 42                          | .8                          |
| Total sodium compounds, calculated                                                                                  | 20                          |                             | 43                          |                             | 43                          |                             |
| as Na <sub>2</sub> O                                                                                                |                             | 1.8                         |                             | 4.0                         | 3                           | .5                          |
| Rosin                                                                                                               | ***                         | None<br>None                |                             | None<br>None                |                             | None<br>None                |
| fatty acids derived from the soap Acid number of mixed fatty acids de-                                              | 80                          | 150                         | 80                          | 150                         | 100                         | 150                         |
| rived from the soap                                                                                                 | 195                         | 205                         | 195                         | 205                         | 195                         | 205                         |

form to the requirements set forth in this section.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture (type II only) shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture content of 50 per cent.

Type I, liquid soap shall be soluble in soft water and when diluted with water shall act as a cleaner. The flash point shall be above its boiling point. It shall not contain any solvents or oils that will damage floor surfaces. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall be a uniform translucent firm gel or paste of a yellowish-white to brownish-yellow color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall dissolve readily to give a 0.15- to 0.2-per cent solution, using distilled water at 15.5° to 20°C, (60° to 68°F.). The solution so prepared shall yield at least 150 milliliters of suds.

Type II in soft water shall act as a cleaner and shall not damage surfaces on which it is used.

The material of each type shall not become rancid or otherwise deteriorate when kept in a closed container.

#### Soap; Low-Titer (for Low-Temperature Washing) P-S-600a

Type I.-Bar form. Type II.-Other forms:

Class A .- Granular.

Class B.-Powdered. Class C.-Flake.

The soap shall have a uniform color. The odor shall not be objectionable in the soap as received or in a solution of the soap in water at 125° to 130°F. The material shall not leave an objectionable odor on objects after washing with a

water solution of the soap and rinsing thoroughly with hot water.

Low-titer soap shall conform to the requirements in the accompanying table.

The percentage of matter volatile at 105°C. shall be computed and reported by the testing laboratory on the soap as received. The percentages of all other constituents shall be calculated and reported on the basis of material containing 32.0 per cent of volatile matter for type I or 7.0 per cent of volatile matter for type II. Percentages are by weight.

Type II shall be as resistant as pos-sible to development of rancidity and heating during storage. The product shall have no objectionable odor for a minimum of 15 days.

#### Soap-Powder P-S-606a

Soap-powder shall be of but one type. It shall be a uniform mixture of soap and sodium carbonate, and/or other alkaline salts, in powdered form. It shall be readily soluble in tepid water, shall contain no free caustic alkali or inert fillers, and shall be free from objectionable odor.

Anhydrous soap shall be not less than 15.0 per cent; alkaline salts, calculated as sodium carbonate (Na<sub>2</sub>CO<sub>2</sub>), shall be not less than 30.0 per cent; the sum of anhydrous soap and alkaline salts, calculated as sodium carbonate (Na2CO3), shall be not less than 55.0 per cent.

#### Soap, Laundry (Chip, Rosin-Type) P-S-581b

This specification covers rosin-type chip laundry soap for use in heavy-duty laundering, such as heavily-soiled occupational clothing, where high wash tem-

| QUANTITATIVE REQU                                                            |          |       |                     |                     |
|------------------------------------------------------------------------------|----------|-------|---------------------|---------------------|
|                                                                              |          | pe I  |                     |                     |
|                                                                              | Per Cent |       | Maximum<br>Per Cent | Minimum<br>Per Cent |
| Matter volatile at 105° ± 2°C                                                |          | ****  | 7.0                 | ****                |
| chloride                                                                     | 2.0      | ****  | 9.0                 |                     |
| Water soluble sodium silicate<br>Free alkali, calculated as sodium hydroxide |          |       |                     | 4.0                 |
| (NaOH)                                                                       |          |       | 0.4                 | ****                |
| Free acid, calculated as oleic acid                                          |          |       | None                |                     |
| Matter insoluble in water                                                    | 0.5      |       | 1.5                 | ****                |
| Rosin                                                                        | None     |       | None                | ****                |
| Sugar                                                                        | None     | ****  | None                |                     |
| Copper (parts per million)                                                   |          | ****  | 10.0                | ****                |
| Unsaponified saponifiable matter                                             | 1.0      |       | 1.0                 |                     |
| Anhydrous soap                                                               |          | 64.0  |                     | 81.0                |
| the soap                                                                     |          |       | 22°C.               |                     |
| acids prepared from the soap                                                 | 90.0     | 74.0  | 90.0                | 74.0                |
| pared from the soap                                                          | 205.0    | 180.0 | 205.0               | 180.0               |
| Residue retained on a No. 12 sieve (class B only)                            | ****     |       | 1.5                 | ****                |
| Organic oxidation inhibitor  * Unless otherwise specified.                   | ****     | ****  | ****                | *0.10               |

| COMPOSITION (P-S-581b)                                |                     |                     |
|-------------------------------------------------------|---------------------|---------------------|
|                                                       | Maximum<br>Per Cent | Minimum<br>Per Cent |
| Moisture and matter volatile at 105°C                 |                     | 15.0                |
| hol, and sodium chloride                              |                     | 12.0                |
| Free alkali, calculated as sodium hydroxide (NaOH)    | ****                | .5                  |
| Free acid, calculated as oleic acid                   | ****                | .5                  |
| Matter insoluble in water                             | ****                | 1.0                 |
| Chloride, calculated as sodium chloride (NaCl)        | ****                | 1.0                 |
| Rosin                                                 | ****                | 20.0                |
| Anhydrous soap                                        | 72.0                |                     |
| Titer of the mixed fatty acids prepared from the soap | 29°C.               |                     |

peratures are required. It shall be of but one type.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 15 per cent.

Laundry chip soap shall be a wellmade, uniformly mixed soap in chip form, made from soda, rosin, and fats, and shall be of a uniform color. It shall dissolve readily in hot water.

The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water and not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

#### Soaps, Potash-Linseed Oil (Liquid and Paste, \_ 100r and General Cleaning) P-S-603b

This specification covers liquid- and paste-type linseed oil soaps suitable for use in washing floors and linoleum. It shall be of the following types:

Type I.—Liquid. Type II.—Paste.

Type I, liquid soap, shall be a uniform liquid soap made solely from whole neutral raw linseed oil and potash.

Type II, paste soap, shall be a uniform translucent, firm gel or paste soap made solely from whole neutral raw linseed oil and potash.

The composition of the soap shall conform to the requirements shown in the accompanying table. Percentages are by weight.

The percentage of moisture shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture content of 50 per cent (type II only).

Type I, liquid soap, shall be soluble in soft water and when diluted with water shall act as a cleaner. The flash point shall be above its boiling point. It shall not contain any solvents or oils that will damage floor surfaces. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The material shall not leave an objectionable odor on surfaces after washing with a water solution of the

soap and rinsing thoroughly with plain water.

Type II shall be a uniform translucent firm gel or paste soap of a yellowish-white to greenish brown color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall dissolve readily to give a 0.15- to 0.2-per cent solution, using distilled water at 15.5° to 20°C. (60° to 68°F.). The solution so prepared shall yield at least 150 milliliters of suds.

A solution of type II in soft water shall act as a cleaner and shall not damage floor surfaces.

The material of each type shall not become rancid or otherwise deteriorate when kept in a closed container.

#### Soap, Toilet (Floating, White) P-S-616b

This specification covers a white floating cake soap suitable for use in personal bathing and general cleaning with soft water. It shall be of but one type.

White floating toilet soap shall be a cake soap of white color, mild and pleasant in odor, thoroughly saponified, and so prepared as to float on water. The material shall conform to the chemical requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported by the testing laboratory on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 34 percent.

#### Soap, Toilet, Paste (For Liquid Soap) P-S-624a

This specification covers paste toilet soap for making liquid toilet soap for use in dispensers.

It shall be a uniform yellowish-white to brownish-yellow firm gel or paste soap made from vegetable oils or distilled vegetable-oil, fatty acids, and potash. It shall be readily soluble in soft water and when diluted to an anhydrous soap content of approximately 15 per cent, shall be suitable and effective as a liquid toilet soap.

Composition shall conform to the requirements in the accompanying table.

The percentage of moisture and of anhydrous soap shall be computed and reported. The percentages of all other constituents shall be computed and reported on the basis of an assumed moisture content of 40 per cent.

The soap shall be mildly perfumed and the odor shall not be objectionable as received, or in hot water. The soap shall not leave any objectionable odor on the skin after washing with a water solution of the soap and rinsing thoroughly with water.

A 15-per cent (anhydrous soap content) solution of the material in distilled water, after having been frozen and then warmed to room temperature, shall exhibit no evidence of cloudiness or gelatinization.

| COMPOSITIO                                   | N (P-S-6            | 03b)                 |                     |                     |
|----------------------------------------------|---------------------|----------------------|---------------------|---------------------|
|                                              | $T_{1}$             | ope I                | Typ                 |                     |
|                                              | Minimum<br>Per Cent | 210 0000 01111111111 | Minimum<br>Per Cent | Maximum<br>Per Cent |
| Moisture (toluene distillation method)       | ****                |                      |                     | 55                  |
| Total matter insoluble in alcohol            |                     | 0.5                  | ****                | 1.0                 |
| Free alkali, calculated as potassium hydrox- |                     |                      |                     |                     |
| ide (KOH)                                    |                     | .05                  | ****                | .1                  |
| Free acid, calculate as oleic acid           |                     | .1                   |                     | .2                  |
| Alkaline salts, calculated as potassium car- |                     |                      |                     |                     |
| bonate (K <sub>2</sub> CO <sub>2</sub> )     |                     | .1                   | ****                | .2                  |
| Matter insoluble in distilled water          |                     | .1                   |                     | .2                  |
| Chloride, calculated as potassium chloride   |                     |                      |                     |                     |
|                                              |                     | .3                   |                     | .5                  |
| (KCl)                                        | ****                | .4                   |                     | 1.0                 |
| Unsaponified and unsaponifiable matter       | 20                  |                      | 43                  |                     |
| Anhydrous soap, calculated as potash soap    | 20                  | ****                 | 43                  |                     |
| Total sodium compounds, calculated as        |                     |                      |                     | -                   |
| Na <sub>2</sub> O                            | ****                | .2                   |                     | .5                  |
| Glycerol                                     | 1.8                 | ****                 | 4                   |                     |
| Rosin                                        |                     | None                 | ****                | None                |
| Sugar                                        |                     | None                 | ****                | None                |
| Iodine number (WIJS) of mixed fatty acids    |                     |                      |                     |                     |
| derived from the soap                        | 175                 |                      | 175                 | ****                |
| Acid number of mixed fatty acids derived     |                     |                      |                     |                     |
| from the soap                                | 190                 | 205                  | 190                 | 205                 |

#### -REQUIREMENTS OF WHITE FLOATING SOAP (P-S-616b) -

|                                                                            |      | Maximum<br>Per Cent | 1000 0100 70 |
|----------------------------------------------------------------------------|------|---------------------|--------------|
| Moisture and matter volatile at 105°C                                      |      | 34.0                | 20.1         |
| Sum of free alkali, total matter insoluble in alcohol, and sodium chloride |      | 2.0                 |              |
|                                                                            |      |                     | 20.0         |
| Free alkali, calculated as sodium hydroxide (NaOH)                         |      | .1                  | 30.2         |
| Chloride, calculated as sodium chloride (NaCl)                             |      | 1.0                 | 620.1        |
| Matter insoluble in water                                                  | **** | .4                  | 30.3         |
| Anhydrous soap                                                             | 62.0 |                     | 560.1        |
| Rosin                                                                      |      | None                | 70.1         |
| Sugar                                                                      |      | None                | 170.5        |
| Acid number of the mixed fatty acids prepared from the                     |      |                     |              |
| soap                                                                       | 212  |                     | 100.1        |

#### -COMPOSITION (P-S-624a)

|                                                                  | Per Cent by Weight |                |
|------------------------------------------------------------------|--------------------|----------------|
|                                                                  | Minimum            | Maximum        |
| Moisture (toluol distillation method)                            |                    | 40.0           |
| Anhydrous soap (calculated as potash soap)                       | . 59               |                |
| Free alkali (calculated as potassium hydroxide, KOH)             |                    | .4             |
| Free acid (calculated as oleic acid)                             |                    | .2<br>.2<br>.2 |
| Alkaline salts (calculated as potassium carbonate, K2CO3)        |                    | .2             |
| Matter insoluble in distilled water                              |                    | .2             |
| Matter insoluble in alcohol                                      |                    | 1.0            |
| Chloride (calculated as potassium chloride, KCl)                 |                    | .5             |
| Rosin                                                            |                    | None           |
| Sodium compounds (calculated as sodium oxide, Na <sub>2</sub> O) |                    | 1.0            |
| Sulfates                                                         |                    | Trace          |
| Sugar                                                            | ****               | None           |
| Iodine number (WIJS) of mixed fatty acids derived from           | 1                  |                |
| the soap                                                         |                    | 150            |
| Titer of mixed fatty acids derived from the soap                 |                    | 32°C.          |
|                                                                  |                    |                |

The material when tested as specified shall produce a net volume of foam at least 100 ml.

#### Soap-Borax Powder For Dispensers P-S-628a

This specification covers soap-borax powder mixtures suitable for use in dispensers. It shall be of the following types:

Type I.—Without lanolin. Type II.—With lanolin.

Soap-borax powder for use in dispensers shall be a uniform mixture of a thoroughly saponified soap and borax (Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub> · 10H<sub>2</sub>O), free from grit and harsh abrasives, and shall be uniform, free-flowing, and noncaking.

The composition of soap-borax powder shall comply with the requirements specified in the accompanying table.

Compute the percentages of the constituents on the basis of the material as received, calculating the borax as the decahydrate—Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub> · 10H<sub>2</sub>O. Borax (Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub> : 10H<sub>2</sub>O) effloresces in warm, dry air. If this has occurred, the sum of the percentages from the computation on the "as-received" basis will exceed 100. If the results are greater than 100 per cent, calculate the percentages of anhydrous soap and of borax (Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub> · 10H<sub>2</sub>O) by the following formula:

Per cent on 100-per cent basis =  $A \times 100$ 

where:

A = percentage found

S = sum of the percentages on the "as-received" basis The soap-borax powder shall produce not less than 100 milliliters foam.

The soap-borax powder shall comply with the following fineness requirements: Type I, maximum retained on No. 12 U. S. standard sieve, 0.00 per cent; minimum on No. 45 sieve, 5 per cent; minimum on No. 100 sieve, 45 per cent. Type II, maximum retained on No. 30 U. S. standard sieve, 0.10 per cent; minimum retained on No. 45 sieve, 5 per cent; minimum retained on No. 45 sieve, 5 per cent; minimum retained on No. 100 sieve, 20 per cent.

The soap-borax powder shall be uncolored or tinted.

Rosin, sugar, and other foreign matter shall not be present.

Unless otherwise specified, the soapborax powder shall be mildly perfumed.

#### Soap, Toilet (Powdered, Dispensers) P-S-626c

The powdered toilet soap shall be of but one type. It shall be a thoroughly saponified soap in powdered form, made from soda and fats, shall be a uniform, free-flowing, noncaking powder, and shall lather freely when used with cold, soft water at room temperature.

Composition shall comply with the requirements in the accompanying table.

The percentage of matter volatile at  $105^{\circ} \pm 2^{\circ}$ C. will be computed on the basis of the soap as received, but all other constituents will be calculated to the basis of material containing 6 per cent of matter volatile at  $105^{\circ} \pm 2^{\circ}$ C.

The powdered toilet soap shall comply with the following fineness requirements: maximum retained on a No. 12 U. S. standard sieve, 1.5 per cent; minimum on a No. 45 U. S. standard sieve, 50 per cent; and minimum on a No. 100 U. S. standard sieve, 90 per cent.

Unless otherwise specified, powdered toilet soap shall be mildly perfumed and, unless otherwise specified, it shall be uncolored.

#### Polish; Metal P-P-556a

Metal polish shall be of the following types:

Type I.-Powder.

Type II.-Liquid.

Type III.—Paste.

Metal polish of each type shall be of but one grade.

All types of metal polish shall have—

(a) Good tarnish removing properties.

(b) Good luster-producing properties.

Good protection of the polished surface against tarnishing influences, and shall be so constituted and prepared that, by reason of application and polishing, they—shall not scratch metals; shall not leave the metal discolored or caked with abrasive material; shall not be detrimental in any manner to metals; shall not show any unnecessary caking of type I or III polish in the containers. The

#### 

| Moisture and matter volatile at 105°C                      |      | 0.0  |
|------------------------------------------------------------|------|------|
| Sum of free alkali, total matter insoluble in alcohol, and |      |      |
| sodium chloride                                            |      | 2.0  |
| Free alkali, calculated as sodium hydroxide (NaOH)         |      | 0.1  |
|                                                            | **** | 0.2  |
| Anhydrous soda soap                                        | 91.0 | **** |
| Rosin, sugar, and foreign matter                           |      | None |

#### 

| Borax (calculated as Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> · 10H <sub>2</sub> O) | 72.0 | 77.0 | 57.0 | 63.0 |
|------------------------------------------------------------------------------------------|------|------|------|------|
| Lanolin                                                                                  |      | 0.0  | 2.5  | 3.5  |
| pH value                                                                                 |      | 10.2 | 8.5  | 9.5  |
| Matter insoluble in water                                                                |      | 0.2  |      | 0.3  |
|                                                                                          |      |      |      |      |

| COMPOSITION (P-S-621c)                                                                                                        |                     |                     |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|
|                                                                                                                               | Minimum<br>Per Cent | Maximum<br>Per Cent |
| Moisture and matter volatile at 105°C                                                                                         | ****                | 15.0                |
| Sum of free alkali, total matter insoluble in alcohol, and sodium chloride Free alkali, calculated as sodium hydroxide (NaOH) | ****                | 1.7<br>.1           |
| Unsaponified saponifiable matter (free fat)                                                                                   |                     | .4                  |
| Anhydrous soap                                                                                                                |                     |                     |
| Rosin, sugar, and foreign matter                                                                                              |                     | one                 |
|                                                                                                                               |                     |                     |

| COMPOSITION (P-S-596c)                                            | Maximum<br>Per Cent | Minimum<br>Per Cent |
|-------------------------------------------------------------------|---------------------|---------------------|
| Moisture and matter volatile at 105°C                             |                     | 6.0                 |
| Sum of free alkali, total matter insoluble in alcohol, and sodium | n                   |                     |
| chloride                                                          |                     | 6.0                 |
| Free alkali, calculated as sodium hydroxide (NaOH)                |                     | 0.2                 |
| Matter insoluble in water                                         |                     | 1.0                 |
| Anhydrous soap                                                    | . 89.0              |                     |
| Residue retained on a No. 12 sieve                                |                     | 1.5                 |
| Rosin                                                             |                     | None                |
| Titer of the mixed fatty acids prepared from the soap             | 39°C.               | ****                |

abrasive material in liquid (type II) polish, shall show no caking in the container, which cannot be readily put into suspension by thoroughly shaking the containers.

The abrasive material shall be of such particle size that 100 per cent will pass through a No. 200 sieve.

Metal polish shall be free from acids, cyanide of potassium or other cyanides, grit, or other ingredients having detrimental effects on metals.

It shall clean quickly, leaving a bright polished surface, with a full luster for the material being polished.

The polished surface shall remain free from corrosion or discoloration for a period of at least 24 hours.

Polish, metal, furnished under this specification shall have good keeping qualities and be guaranteed for 1 year from the date of actual receipt at point of delivery specified in the contract or order.

The amount of volatile matter, at 105° to 107°C., in either type II or III polish, shall not exceed 70 per cent by weight, of the polish.

The flammability of the liquid contents of types II and III polishes shall be not less than 39°C.

#### Soap, Toilet (Cake, Milled) P-S-621c

This specification covers a milled cake soap suitable for use in personal bathing. It shall be of but one type.

The soap shall be thoroughly saponified and its composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 15 per cent.

Milled toilet soap shall be a highgrade, milled cake soap, as free as possible from water, either colored or uncolored, well compressed in firm, smooth cakes of a size and shape specified in the contract or order. It shall lather freely when used with cold soft water. Unless otherwise specified, the soap shall be mildly perfumed.

#### Soap, Laundry (Powdered) P-S-596c

This specification covers a white or light amber powdered laundry soap suitable for use in high temperature laundering of soiled cotton fabrics, and for general cleaning of soiled cotton fabrics, and for general cleaning with soft water. It shall be of but one type.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 6 per cent.

Powdered laundry soap shall be a soap in powdered form made from soda and fats, without rosin, and shall be of a white or light amber color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

#### Soap, Laundry (Granulated, Rosin-Type) P-S-583b

This specification covers rosin-type granulated laundry soap for use in heavy-duty laundering, such as heavily-soiled occupational clothing, where high wash temperatures are required. It shall be of but one type.

The composition of the soap shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed, and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 10 per cent.

Granulated laundry soap shall be a well-made, uniformly mixed soap in granulated or powdered form, made from soda, rosin, and fats, and shall be of a uniform color.

The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

(Turn to Page 241)

| COMPOSITION (P-S-583b)                                           | Maximum<br>Per Cent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Minimum<br>Per Cent |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Moisture and matter volatile at 105°C                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10.0                |
| Sum of free alkali or free acid, total matter insoluble in alco- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
| hol, and sodium chloride                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14.0                |
| Free alkali, calculated as sodium hydroxide (NaOH)               | ****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .5<br>.5            |
| Free acid, calculated as oleic acid                              | ****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .5                  |
| Matter insoluble in water                                        | ****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.0                 |
| Chloride, calculated as sodium chloride (NaCl)                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.0                 |
| Rosin                                                            | ****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20.0                |
| Anhydrous soap                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
| Residue retained on a No. 12 sieve                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.0                 |
| Titer of the mixed fatty acids prepared from the soap            | and the same of th | ****                |

| COMPOSITION (P-S-591c)                                 | Maximum<br>Per Cent | Minimum<br>Per Cent |
|--------------------------------------------------------|---------------------|---------------------|
| Moisture and matter volatile at 105°C                  |                     | 36.0                |
| hol, and sodium chloride                               | 2.0                 | 11.0                |
| Free alkali, calculated as sodium hydroxide (NaOH)     |                     | .5                  |
| Free acid, calculated as oleic acid                    |                     | .5<br>.5            |
| Matter insoluble in water                              |                     | 1.0                 |
| Chloride, calculated as sodium chloride (NaCl)         |                     | 1.0                 |
| Rosin                                                  |                     | 25.0                |
| Anhydrous soap                                         | 52.0                |                     |
| Titer of the mixed fatty acids prepared from the soaps | 29°C.               |                     |

# The Peet-Grady Method

Official Method of the Chemical Specialties Manufacturers Association\* for Evaluating Liquid Household Insecticides, Latest Revision

 $\Gamma^{ ext{HE}}$  Peet-Grady Method was adopted as an official test in 1932, and has since been improved in certain details, all improvements have been officially accepted after thorough investigation by the CSMA Insecticide Scientific Committee. Inquiries regarding the method should be addressed to the chairman of this Committee. This method of test is a means of determining the relative efficiency of contact insecticides dissolved in fly spray base oils suitable for household and industrial use. The method does not apply to cattle sprays having viscosities materially higher than those of fly spray base oils. As a biological test it is subject to variations which accompany the reaction of living organisms and should be employed under the supervision of a person familiar with the biological testing of insecticides. In order to measure with reasonable tolerance the relative effectiveness of different insecticides, the test is designed to be used in conjunction with the "Official Test Insecticide" as the basis of comparison.

Two methods, or procedures, are permitted. The small group method is substantially the same as outlined at the time the test was adopted in 1932 while the large group method was adopted officially in 1938. Both methods are being used extensively, and if correctly employed, evaluation by either test may be expected to be in reasonable agreement.

\*Chemical Specialties Manufacturers Association, 110 E. 42 Street, New York, New York.

#### II. APPARATUS

A. Reference Insecticide: The reference insecticide shall be the current Official Test Insecticide (OTI) prepared and sold by the CSMA, 110 E. 42nd Street, New York 17, New York. The OTI is carefully standardized by both biological and chemical analysis and it must not be diluted or changed in any manner.

B. Atomizer: The Special Atomizer No. 5004, constructed by the DeVilbiss Co., Toledo, O., must be used, preferably with the DeVilbiss No. 631 cut off. This atomizer shall be operated with air free of contaminants and maintained at a constant pressure of 12.5 ± 0.5 pounds per sq. in. measured by a gage of not more than 30 pounds capacity or a manometer. The atomizer shall deliver 12 cc. of OTI in 24 seconds (tolerance ± 1 second) and this should be checked frequently. Atomizers failing to meet this test should be repaired by the manufacturer or replaced.

C. Test Insect: The test insect shall be the adult house fly (Musca domestica L.) reared from a strain mixed under the supervision of the CSMA. Flies in test groups shall be not less than 3 nor more than 6 days old at the time of testing, and must meet the CONDITIONS FOR OFFICIAL EVALUATION. Section IV.

D. Fly Cages: Cages of any convenient type may be used if they provide at least 1 cubic inch of space per fly and at least 2 sides and the

top are screened. The floor of the cage preferably is detachable, to facilitate cleaning and inserting a paper floor covering. The cages are constructed of wood or other suitable material and fly wire screening, and are fitted with a sleeve opening, rubber membrane, or a door.

E. Rearing Room: This room may be of any convenient size constructed so as to be free from strong drafts, and maintained at a temperature of  $82\pm2$  degrees Fahrenheit and relative humidity of  $50\pm5$  percent. It should be separate from the testing room in order to eliminate the possibility of traces of insecticide coming in contact with the test insects. Ventilation should be provided to reduce odors and gases from fermenting media.

F. Testing Room: This room may be of any convenient size capable of holding the standard Peet-Grady Chamber and permitting adequate additional space for the operator to handle the test efficiently. While conducting tests, this room shall be maintained at a temperature of 75 to 85 degrees Fahrenheit. It is suggested that relative humidity be held between 40 and 70 per cent. Since the exhaust fan of the chamber will move relatively large quantities of air, the temperature of the air entering this room should be approximately that specified above.

G. Peet-Grady Test Chamber: The Test Chamber shall be rigidly constructed of wood, metal, or other suitable material. The inner surface shall be smooth, impervious

to the usual household type of insecticide, and as free from cracks, projections, ledges, etc., as possible. The chamber shall be a 6-ft. cube by internal measurements, with a tolerance of plus or minus 1 in. for any dimension. One wall shall contain a tight-fitting door large enough for a man to enter conveniently, with the interior side flush with the wall when closed. One or more of the walls, or the ceiling, shall contain an observation window, preferably on two opposite walls. Illumination is provided by means of a glass window in the ceiling, above which is placed an electric light of such intensity as to permit flies to be observed easily. An opening covered with 10 or 12-mesh wire screen shall be connected to an exhaust fan duct and the size and the location of this opening in relation to ventilation openings in the wall must be such that thorough ventilation of the chamber is obtained. Preferably, the exhaust opening should be 1 sq. ft. or larger and located in or near the ceiling. Air inlet openings may be ports approximately 6 x 6 in. in size, covered with screen on the inside and provided with tight fitting hinged covers on the outside. Four ports located near the 4 lower corners, or 8 ports located near both the 4 upper and 4 lower corners are satisfactory, but the ventilation ports should not be on the same level as the exhaust port. The entrance door may be used alone or in conjunction wtih the ventilation ports if a screen door is provided and thorough ventilation of the chamber is obtained. If the temperature of the air used to ventilate the chamber is lower than 80° F., heaters may be used to obtain the temperature of 82 ± 2° F. required during the test period. Such heaters must be removed before a test is started. Openings shall be provided for the introduction of the insecticide; these must be so constructed and so located that uniform distribution of the spray is effected without undue ventilation of the chamber. These openings may be round 1 in. holes located not less

than 6 in. or more than 12 in. from the ceiling and 18 in. from the nearest corner on each wall, or a single hole may be provided in the center of each wall 6 to 12 inches from ceiling.

H. Exhaust Fan: An exhaust fan moving not less than 1,000 cu. ft. of air through the chamber per min. shall be used to ventilate the chamber after each test. It shall be arranged with adequate piping to exhaust the chamber vapors outside of the building.

I. Insecticide Paper: Unsized, non-glazed absorbent paper, such as brown kraft or gray bogus, shall be used to cover the chamber floor. Two overlapping sheets of 36-40 in. width or one sheet of 6 ft. width may be employed. No special weight is specified although 60-80 lb. gray bogus paper has been found excellent.

J. Apparatus for Picking Up Flies: Any convenient means of picking up the paralyzed flies without injuring or appreciably disturbing them may be used. If a vacuum device is used, it must produce gentle suction, have a sufficiently large receptacle to prevent crowding of the flies, and it shall be cleaned after each test with the same materials used in cleaning the chamber.

#### III. PROCEDURE

A. Rearing and Handling Flies: In this procedure, eggs are transferred to medium suitable for the development of larvae, the pupae are collected from the medium and placed inside of cages, and the adult flies emerge and remain in these cages until the day of testing. A culture is defined as all adults resulting from the seeding of eggs collected at one time on a given date.

Larval medium: The preferred containers are cylindrical glass battery jars approximately 6 in. in diameter and 9 in. high. For one jar, mix 340 gm. (12 oz.) standard dry larval medium (1) with approximately 750 cc. ot an aqueous suspension containing 15 gm. moist cake yeast and 10 cc. non-diastatic Diamalt, (2). Mix thoroughly until a loose, fluffy medium is obtained, transfer it to the battery jar without packing, cover with cloth and set in the insectary. The amount of suspension required for best rearing results will need be determined in each laboratory and it may be varied in order to prevent mold growth. It is suggested the medium be prepared in the late afternoon of the day before egg collection.

Eggs: Eggs are collected for a period not longer than 16 hours from food dishes or other oviposition media in cages containing mature flies not more than 8 days old. It is suggested that fresh oviposition medium be placed in fly cages in the late afternoon and eggs be collected early on the following morning. After collecting the eggs they must be measured and seeded without delay. Wash all the eggs together in tap water at room temperature and measure 2000 eggs as accurately as posible. This may be done by allowing the eggs to settle in a calibrated pipette or graduate (0.1 cc. settled eggs contains about 700) or the eggs can be filtered and measured in calibrated pits or cells. Use 10 cc. tap water to measure and to scatter the eggs in a pit or trench 1/2 in. deep and located in the center of the jar of larval medium. Cover the eggs with loose medium, replace the cloth covers on the jars, and set jars in the insectary so that at least 1.5 in. separates each jar to permit free air circulation. The maximum temperature in the jar (about 3 days later) must not exceed 130°F. Under normal conditions more than 85 per cent of the eggs should hatch within 36 hours of the time they are laid.

Pupae: Mature larvae migrate to the top portion of the medium and normally all larvae will have pupated by the seventh day after seeding eggs. When this occurs, the portion of medium containing pupae may be loosened, poured into

<sup>(1)</sup> Mixed according to CSMA specifications by the Ralston Purina Co., St. Louis, Mo.

<sup>(2)</sup> Standard Brands Inc. products. These can be obtained from local distributors in most cases.

a shallow tray, and air dried at room temperature. An electric fan may be used to hasten drying. Pupae may be separated from the dry medium by sprinkling the pupae-medium mixture on an inclined tray or chute set in front of an air blast such as that from an electric fan. The pupae must be handled gently and as little as possible in order to avoid injury. Any method that permits at least 95 per cent of flies to emerge is considered satisfactory.

All of the pupae maturing on a given day are combined into one lot, mixed, and measured into test units. Each group is placed in a shallow dish which is, in turn, placed in a cage which provides at least 1 cu. in. of space per pupa. If the large group procedure is used the test unit consists of approximately 500 pupae. If the small group procedure is used, more than 500 pupae are placed in stock cages and adult flies are sampled prior to testing. Under normal rearing conditions, at least 80 adult flies should be obtained from each 100 eggs seeded.

Adult Fly Food: The food for adult flies shall consist of 5 per cent spray dried, non-fat milk solids and 2 per cent granulated sugar thoroughly dispersed in water. Roller dried or caked milk solids settle out of suspension within a few hours and are unsuitable as food. A 40 per cent formalin solution may be added to the food at the rate of 1/1500 to delay souring. Each cage is supplied daily with a dish containing at least 15 ml. food for each 100 flies, and so prepared as to prevent the flies from drowning. Satisfactory food must be available to the flies at all times.

B. Testing Flies: Before a fly spray test is started, the Peet-Grady chamber must be clean and have clean paper on the floor, all ports and openings must be closed, the temperature must be  $82 \pm 2^{\circ}$ F., and all windows must be shaded equally. In both procedures, only flies which are capable of flying may be liberated into the Peet-Grady chamber. In the large group pro-

cedure all flies in one cage are used in a single test, but in the small group method a sample of  $100\pm5$  flies is used in each test. Samples may be taken by liberating the flies directly into the chamber and continuing until about 10 per cent of flies remain in the stock cage. These are discarded. The order of spray treatments must be randomized as discussed in Section IV, paragraph 6.

Immediately after liberating the flies in the chamber, a total of 12 cc. of insecticide shall be sprayed in equal quantities through each spray hole. The nozzle of the atomizer shall be oscillated slowly in a horizontal plane to avoid spraying walls and ceilings and to effect uniform distribution of the spray. This procedure shall be completed within one minute from the time the spraying was started and the chamber must remain closed at a constant temperature in the range of 82 ± 2°F, for a total of 10 min. At the end of this period the ports are opened and the chamber is ventilated by means of the exhaust fan while the flies are collected.

The paralyzed flies are picked up and transferred immediately to clean cages meeting the specifications of Section II, paragraph D. These flies may be counted when they are picked up or later, depending upon which time is most convenient. During the subsequent 24-hr. recovery period, the cage is placed in the rearing room and supplied with an adequate quantity of a 5 per cent sugar solution, arranged so that the top of the dish is not more than 3/4 inch above the floor of the cage and flies cannot drown in it. A gauze-wrapped ball of cotton saturated with 5 per cent sugar solution also is satisfactory.

The unparalyzed flies in the chamber at the end of the 10-min. exposure period must be counted and discarded.

After a test is completed, all toxic residues must be removed from the chamber. The paper on the floor must be renewed and the inside

walls and ceiling must be cleaned thoroughly. Wiping with a clean cloth saturated with alcohol containing 10 per cent acetone or washing with soap and water will remove a number of toxic residues. However, special cleaning precautions may be required after tests with certain chemical compounds in order to remove their toxic residues. Contamination by many compounds may be detected by holding flies with food overnight in the cleaned chamber. The chamber is considered contaminated if more than 8 per cent of flies are either paralyzed in 30 minutes or are dead in the morning.

C. Assembling the Data: The number of unparalyzed flies must be counted and recorded at the end of the 10-min. exposure period. The dead flies are counted 24 hours (± 1 hr.) later, preferably by removing them from the recovery cage. Only flies that show no sign of life upon being touched may be counted as dead. If paralyzed flies were counted as they were collected, the sum of paralyzed and unparalyzed flies yields the total flies in the test. If paralyzed flies were not counted as collected, the recovered flies are killed by placing the cage in an oven at 170°F. for a few minutes, after which they are counted. The sum of recovered and dead flies yields the paralyzed flies and this sum added to the unparalyzed flies yields the total flies used in the test. The mortality is the per cent dead of total flies and the knockdown is the per cent paralyzed of total flies.

#### IV. CONDITIONS FOR OFFICIAL EVALUATION

- The tests shall be conducted in accordance with the procedure previously described and no official Peet-Grady rating may be assigned unless the tests meet all requirements.
- At least 2 cultures of flies shall be used in making an official evaluation.
- Cages showing a combined mortality and crippling greater than

8 per cent on the day of test shall not be used.

- An unknown insecticide to be officially rated shall have a knockdown percentage equal to that of the OTI with a tolerance of minus 2.
- 5. The kill by the OTI shall fall between 30 and 55 per cent in all tests. The toxicity of an unknown spray shall be reported by a grade letter, obtained by subtracting the average kill by the OTI from the average kill by the unknown spray and comparing this result with the following figures:

6. In the small group procedure no more than 2 unknown samples may be tested in conjunction with one OTI in any one series. Ten tests are run on the OTI and on each of the unknowns in parallel; that is, test each spray the same number of times on flies of the same culture and test all sprays the same number of times on any one day. The samples of a series must be randomized in the order of testing. For example, number the samples and the OTI, and test them in the order 1, 2, 3; 2, 1, 3; 3, 2, 1, etc., until each has been tested ten times. After the mortality data are obtained, calculate the average kills and determine the difference between that of the unknowns and that of the OTI. In order for these differences to be valid, the standard error of the mean difference between the average OTI kill and the average unknows. kill must be less than 3. If it is 3 or greater, the test results were too variable and to make the results valid, additional paired tests must be run to reduce the figure to a value less than 3. The example in Table I illustrates the arrangement of test data and calculations described in the preceding paragraphs. When two unknown samples and the OTI are tested in series, the first table

should consist of differences between Sample No. 1 and the OTI, the second table should show differences between Sample 2 and the OTI.

1.14 is less than 3, thus indicating the test has been properly conducted. The letter n (in formula above) denotes the number of paired tests. This number is always 10 except when it is necessary to run additional tests to reduce the standard error of the mean difference to 3 or less.

The percentage kill of Sample 1 minus the percentage kill of OTI

is +4; therefore, Sample 1 is a "B" grade insecticide.

 In the Large Group procedure the evaluation is carried out as follows:

The evaluation is based on the difference in mortality of the OTI and the unknown as determined by a minimum of 4 tests. The order of testing shall be random and replicated OTI tests on any culture shall agree within 10 points. Table II illustrates one arrangement of testing, the computation of the test results, and the grading of the sprays.

#### TABLE I. Small Group Method

|      |         |      | 0/2 I    | Dead  |             |                        | Deviation |
|------|---------|------|----------|-------|-------------|------------------------|-----------|
| Pair | Culture | Date | Sample 1 | OTI   | Difference1 | Deviation <sup>2</sup> |           |
| 1    | С       | 3-8  | 58       | 50    | +8          | +4                     | 16        |
| 2    | C       | 8    | 62       | 55    | +7          | +3                     | 9         |
| 3    | C       | 8    | 60       | 54    | +6          | +2                     | 4         |
| 4    | Č       | 8    | 52       | 52    | +0          | -4                     | 16        |
| 5    | C       | 8    | 49       | 46    | +3          | -1                     | 1         |
| 6    | E       | 9    | 61       | 54    | +7          | +3                     | 9         |
| 7    | E       | 9    | 46       | 49    | -3          | -7                     | 49        |
| 8    | E       | 9    | 53       | 51    | +2          | -2                     | 4         |
| 9    | E       | 9    | 57       | 54    | +3          | -1                     | 1         |
| 10   | E       | 9    | 53       | 46    | +7          | +3                     | 9         |
|      |         |      | 55.1M    | 51.1M | +4 MI       | 0 0                    | 118 Sum d |

<sup>1</sup> Sample 1 kill minus OTI kill.

Deviation from the mean difference (MD).

The mean difference (MD) between Sample 1 kill and the OTI kill is 4.0.

The standard error of MD = 
$$\sqrt{\frac{\frac{\text{Sum d}^2}{n-1}}{\sqrt{n}}}$$
 =  $\sqrt{\frac{\frac{118}{9}}{\sqrt{10}}}$  = 1.14

#### TABLE II. Large Group Method

|   | Cage | CULTURE E<br>Nov. 21 |        | CULTURE F<br>Nov. 23 |        |
|---|------|----------------------|--------|----------------------|--------|
|   | No.  | Sample               | % Dead | Sample               | % Dead |
| 1 |      | OTI                  | 43     | 2                    | 69     |
| 2 |      | 1                    | 44     | . 3                  | 65     |
| 3 |      | 3                    | 57     | OTI                  | 54     |
| 4 |      | 2                    | 63     | 3                    | 58     |
| 5 |      | 3                    | 52     | 1                    | 45     |
| 6 |      | OTI                  | 47     | 2                    | 77     |
| 7 |      | 1                    | 39     | 1                    | 54     |
| 8 |      | 2                    | 71     | OTI                  | 46     |

| Sample | Mortalities    | Average | Rating | Grade |
|--------|----------------|---------|--------|-------|
| OTI    | 43, 47, 54, 46 | 47.5    |        |       |
| 1      | 44, 39, 45, 54 | 45.5    | - 2.0  | ·B    |
| 2      | 63, 71, 69, 77 | 70.0    | +22.5  | AA    |
| 3      | 57, 52, 65, 58 | 58.0    | +10.5  | A     |

## **Aerosol Flammability Tests**

Aerosol Scientific Committee Report of Sub-Committee II of the Chemical Specialties Manufacturers Association.

The Test Method for Checking the Flammability of Self-Pressurized Dispensers, given herewith, is the result of several years of work and testing collaboration. The tests were adopted as official at the June, 1952 meeting of the C.S.M.A.

The Committee gratefully acknowledges the assistance, suggestions and guidance of the Bureau of Explosives, Association of American Railroads. The facilities of their laboratories were made available to us. The Drum Test was originally a suggestion of their laboratory.

We hope for wide adoption of these methods.

#### Test Methods for Checking the Flammability of Self-Pressurized Dispensers

- Three tests for checking the flammability of self-pressurized dispensers are:
  - The Flame Projection Test The Modified Tag Open Cup Test The Drum Test
- The Flame Test indicates how far a flame will extend beyond a burning taper if the spray from a self-pressurized dispenser is directed towards same. This is comparable to actual performance of the full complete mix
- 3. The Modified Tag Open Cup Test indicates what might be expected if there had been a leak, and after the propellent gas had been lost the remaining liquid should be heated sufficiently to cause the remaining solution to boil or evaporate excessively.

- 4. The Drum Test indicates hazards, if any, that may result if one were to spray excessive quantities of different formulations in a confined space and there is a flame present, and also the result of varying degrees of dilution of spray with air when there is a flame present.
- 5. All three tests should be used for each type of formulation tested because, collectively, these tests give a better over-all check than any one separately.
- A unit shall be classed as per the lowest rating received in any one of the three tests.
- Two 12-ounce containers are required to make the three tests.

#### Self-Pressurized Dispenser Flame Projection Test

#### EQUIPMENT REQUIRED

1. The test equipment consists of a base 4" wide, 2' long, marked in 6" intervals. A rule 2" long and marked in inches is supported horizontally on the side of the base and about 6" above it. A plumber's candle of such height that the top third of the flame is at the height of the horizontal rule, is placed at the zero point in the base.

#### PROCEDURE

- The test is conducted in a draft-free area that can be ventilated and the atmosphere cleared after each test.
- Place the self-pressurized dispenser at a distance of 6" from the standard flame source.
- Spray dispenser so that the spray passes through the top third of flame and at right angle to the flame. Height of flame approximately two inches.

- Spray for periods of 15-20 seconds, one observer noting the extension of the flame and the other operating the container.
- The normal bending of flame is about 2", which is part of the recorded distance.
- 7. Take three readings for each test and average.
- Do not spray large quantities of any type formulation in a small confined space and remain. Free space of previously discharged material.
- 9. The Standard for Classification is as follows:
  - (a) Self-pressurized dispensers producing flames at full valve opening over 8" at 6" should be classed as combustible.
  - (b) Self-pressurized dispensers producing flames at full valve opening over 18" at 6" should be classed as flammable.
  - (c) Self-pressurized dispensers which flash back at any degree of valve opening to the container should be classed as flammable.

#### Modified Tagliabue Open Cup Test Method

#### EOUIPMENT REQUIRED

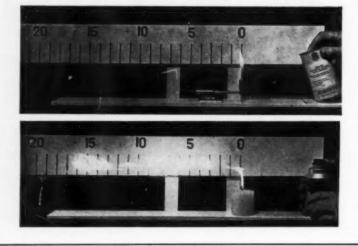
 A standard Tagliabue open cup tester, Tag Gas Flame Testing burner, flash test thermometer, and heat source.

#### PROCEDURE

 Use a Tagliabue Open Cup Tester and transfer into it the contents of a self-pressurized dispenser after the propellent gas had been allowed to escape.

as sprayed.

Photographs illustrate flame projection test equipment. Top shows micro burner and lower photo shows candle flame.



- 3. A convenient way of preparing the contents to be transferred to the Tag Open Cup, is to pierce the top of a container when in an upright position with a very fine hole which will allow the Freon-12, Genetron, or similar gases to escape.
- 4. After a few minutes the pierced hole can be enlarged, and as soon as there is no further evidence of gas escaping, the top of the container should be cut open and the contents allowed to stand until the temperature is 60°F.
- 5. The material is then poured into the standard Tag Open Cup until the cup is filled to the test line.
- A thermometer is immersed in the solution and the solution is heated at the rate of about 2°F per minute.
- 7. Continue heating and applying test flame, using Tag Gas Flame Testing Burner, until either the solution flashes completely across the top of the Cup, or the volume has dropped ¼" from the initial starting line.

#### TEST STANDARDS

 Materials which drop ¼" in volume from the initial starting line and have not developed a flash are recorded as having no

- flash under the conditions of the test.
- Materials which flash below 100°F would be considered flammable.
- Materials which flash below 300°F but above 100°F, combustible.

#### DRUM TEST

#### EQUIPMENT REQUIRED

 A 55 gallon open head drum or similar container fitted with a hinged cover over the "open"

- end, arranged so that it will open readily at a pressure of five pounds. The cover does not have to fit air tight.
- 2. The closed or "solid" end is equipped with three shuttered openings (top, side and base of the solid end) for introduction of the spray. These openings are approximately 2" from the edge, and are of 1" diameter. The side opening, 2" in from the edge, is at the mid-point between top and bottom of the drum.
- In the center of the closed end a 6" square opening is cut, and a piece of safety glass attached, to permit looking into the container.

A small flame (such as a plumber's candle) is placed an equal distance from the ends on lower side of drum, which is on its side.

#### PROCEDURE

- 4. The drum should be placed out in the open when temperature is between 60-80°F.
- 5. OPEN DRUM TEST

This test is conducted with hinged end in a completely open position and with all three shutters closed. The spray from the dispenser with valve fully

(Turn to Page 241)

Photographs illustrating drum test equipment. Top shows drum in open position. Window on side is optional. Lower photo shows drum closed. Note three small movable discs.





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| Detergents, Variables inSept., 1949 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Floor Sealers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dishwashing Compound, Propose New                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Floor Sealers and HardenersSept., 1948 129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Floor Wax Practice Rules Proposed by FTCMay, 1951 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Dishwashing Detergents, Evaluation of Dec., 1952 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Floor Waxes, a Machine for Evaluating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Dishwashing, Detergents for MechanicalDec., 1950 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Dirt Retention of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Disinfectant Test MethodFeb., 1952 144                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Floor Waxes, ConductiveOct., 1952 159                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Disinfectants for Tuberculosis Tryglene (1)Sept., 1931 131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Disinfectants for Tuberculosis Hygiene (II)Oct., 1951 145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Floors and Floor Finishes, SafeSept., 1950 121                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Disinfectants, Proceedings Associated and Mary 1049 141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Fig. Desistant Wilson And W. Colon With 2 Long 1051 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Disinfectants, Practical Aspects of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Fly Resistance, Where Are We Going With?June, 1951 139                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Dispersion, Chemical, the Expanding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Foam MeasurementAug., 1950 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Rationale of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Food Plant Sanitation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Apr 1040 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FTC Cites Insecticides                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Dispersions, SoapJune, 1949 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Into 1040 115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Practices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| July, 1949 115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Oct., 1949 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fungicide Weathering TestsAug., 1949 137                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Oct., 1949 127  Dodge & Olcott is 150 Years Old                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fungicide Weathering Tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Oct., 1949 127  Dodge & Olcott is 150 Years Old                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fungicide Weathering TestsAug., 1949 137                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Oct., 1949 127  Dodge & Olcott is 150 Years Old                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fungicide Weathering Tests. Aug., 1949 137 Fungistatic Power Aug., 1949 137 Furniture Polishes, Modern Dec., 1952 162                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Oct., 1949 127  Dodge & Olcott is 150 Years Old                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fungicide Weathering Tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Oct., 1949 127  Dodge & Olcott is 150 Years Old                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fungicide Weathering Tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Oct., 1949 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fungicide Weathering Tests       Aug., 1949 137         Fungistatic Power       Aug., 1949 137         Furniture Polishes, Modern       Dec., 1952 162         G       G         German Soap Industry       Jan., 1949 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Dodge & Olcott is 150 Years Old.   Nov., 1948 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Fungicide Weathering Tests. Aug., 1949 137 Fungistatic Power Aug., 1949 137 Furniture Polishes, Modern Dec., 1952 162  German Soap Industry. Jan., 1949 71 German Synthetic Detergents July, 1948 67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Oct., 1949 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fungicide Weathering Tests. Aug., 1949 137 Fungistatic Power Aug., 1949 137 Furniture Polishes, Modern. Dec., 1952 162  G German Soap Industry. Jan., 1949 71 German Synthetic Detergents. July, 1948 67 Germicidal Action, a Capacity Test for Feb., 1951 133                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Dodge & Olcott is 150 Years Old                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fungicide Weathering Tests. Aug., 1949 137 Fungistatic Power Aug., 1949 137 Furniture Polishes, Modern Dec., 1952 162  G German Soap Industry. Jan., 1949 71 German Synthetic Detergents July, 1948 67 Germicidal Action, a Capacity Test for Feb., 1951 133 Germicidal Acrosols May, 1948 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Dodge & Olcott is 150 Years Old                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fungicide Weathering Tests. Aug., 1949 137 Fungistatic Power Aug., 1949 137 Furniture Polishes, Modern Dec., 1952 162  G German Soap Industry. Jan., 1949 71 German Synthetic Detergents July, 1948 67 Germicidal Action, a Capacity Test for Feb., 1951 133 Germicidal Acrosols May, 1948 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Oct., 1949 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fungicide Weathering Tests. Aug., 1949 137 Fungistatic Power Aug., 1949 137 Furniture Polishes, Modern Dec., 1952 162  German Soap Industry. Jan., 1949 71 German Synthetic Detergents July, 1948 67 Germicidal Action, a Capacity Test for Feb., 1951 133 Germicidal Aerosols May, 1948 125 Germicidal Liquid Soaps Aug., 1950 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Dodge & Olcott is 150 Years Old.   Nov., 1948 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Fungicide Weathering Tests. Aug., 1949 137 Fungistatic Power Aug., 1949 137 Furniture Polishes, Modern. Dec., 1952 162  German Soap Industry. Jan., 1949 71 German Synthetic Detergents. July, 1948 67 Germicidal Action, a Capacity Test for Feb., 1951 133 Germicidal Aerosols May, 1948 125 Germicidal Liquid Soaps Aug., 1950 36 Germicides, Testing Sept., 1950 131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dodge & Olcott is 150 Years Old.  Dog Soaps  Jan, 1948 44 Dog Soaps  July, 1950 29  E  Eastern NSSA Meets in New York.  Eastman Kodak Plant, Keeping the, Spotless. Sept., 1951 127 Economic Poison Laws.  Nov., 1947 115 Economic Poisons Officials Meet.  Nov., 1947 159 Electrolytes in Soapmaking.  Dec., 1952 95 Electron Microscope Studies Bright-Drying                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fungicide Weathering Tests         Aug., 1949 137           Fungistatic Power         Aug., 1949 137           Furniture Polishes, Modern         Dec., 1952 162           G           German Soap Industry         Jan., 1949 71           German Synthetic Detergents         July, 1948 67           Germicidal Action, a Capacity Test for         Feb., 1951 133           Germicidal Acrosols         May, 1948 125           Germicidal Liquid Soaps         Aug., 1950 36           Germicides, Testing         Sept., 1950 131           Germicides—What the Public Health Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Dodge & Olcott is 150 Years Old.  Dog Soaps  Jan., 1948 44  Dog Soaps  Jan., 1948 36  Dry Cleaning Detergents  E  Eastern NSSA Meets in New York.  Eastman Kodak Plant, Keeping the, Spotless.  Sept., 1951 127  Economic Poisons Officials Meet.  Nov., 1947 115  Electrolytes in Soapmaking.  Dec., 1952 95  Electron Microscope Studies Bright-Drying  Wax Dispersions  Oct., 1949 127  Oct., 1948 44  Oct., 1948 44  Oct., 1948 14  Oct., 1949 127  Oct., | Fungicide Weathering Tests. Aug., 1949 137 Fungistatic Power Aug., 1949 137 Fungistatic Power Aug., 1949 137 Furniture Polishes, Modern Dec., 1952 162  G German Soap Industry. Jan., 1949 71 German Synthetic Detergents July, 1948 67 Germicidal Action, a Capacity Test for Feb., 1951 133 Germicidal Aerosols May, 1948 125 Germicidal Liquid Soaps Aug., 1950 36 Germicides, Testing Sept., 1950 131 Germicides—What the Public Health Service Thinks of Aug., 1951 133                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Insect Control on AircraftAug., Insect Control ProblemsFeb.,                    |       |          | N.A.I.D.M. Meets in New York                                                      | 1948 | 1939     |
| 11                                                                              | 10.40 | 1 5 4    | N.A.I.D.M.—U.S.D.A. Report on Quaternary                                          | 1040 | 122      |
| Insect RepellentsMar.,                                                          | 1952  | 136      | NaphthaleneMay,                                                                   | 1040 | 133      |
| Insecticide Resistance, AAEE Tampa TopicJan.,                                   | 1950  | 127      | Naphthalene                                                                       | 1040 | 71       |
| Insecticidal Surface CoatingsFeb.,                                              | 1948  | 39       | New York Schools Buy Liquid Soap Dispensers. Dec.,                                | 1948 | 57       |
| Insecticide Bills, StateMar.,                                                   | 1949  | 171      | Niagara Alkali—1900-1950Oct.,                                                     | 1950 | 49       |
| Insecticide Laws, Up-To-DateMay,                                                | 1951  | 110      | Non-ionic Detergent, Detergency Properties of                                     |      |          |
| Insecticide Resistant FliesJuly,                                                |       |          | Systems Containing a SolidAug.,                                                   | 1951 | 33       |
| Insecticide Resistant HousefliesAug.,                                           |       |          | Non-Ionic DetergentsJune,                                                         | 1948 | 47       |
| Insecticide Volume UpNov.,                                                      |       |          | Non Ionic Surface Active AgentsJan.,                                              | 1949 | 37       |
| Insecticides Against Roaches                                                    | 1040  | 127      | Non-ionics in the Dry Cleaning IndustryJune,                                      | 1951 | 43       |
| Insecticides, Chemicals inFeb.,                                                 | 1050  | 125      | N.S.S.A. Elects Peck                                                              | 1948 | 120      |
| Insecticides for Livestock Pest ControlJune,                                    |       |          | N.S.S.A. in 25th Annual MeetingApr.,                                              | 1948 | 138      |
| Institutional Uses of Sanitary ChemicalsAug.,                                   | 1951  | 118      | 0                                                                                 |      |          |
| Insulation, Soap PlantJuly,                                                     | 1952  | 49       | Odor MeasurementJune,                                                             | 1949 | 133      |
| Iodine as a BactericideJuly,                                                    | 1952  | 149      | Oil Refining By Distillation                                                      | 1948 | 71       |
| Ion-Exchange, Expanded Uses Seen for June,                                      |       |          | Oil Types Used in Pest Control WorkMar.,                                          | 1945 | 115      |
| Israel's Soap IndustryJan.,                                                     | 1950  | 33       | Olive OilApr.,                                                                    | 1948 | 47       |
| J J                                                                             | *053  |          | Olive Oil Foots, Outlook forApr.,                                                 | 1050 | 37<br>37 |
| Janitor, Everything ButOct.,                                                    |       |          | Optical Bleaches in Soap                                                          | 1950 | 48       |
| Jobber's Salesman PartnersNov.,                                                 | 1952  | 125      | Oxidation of Soap FatsFeb.,                                                       | 1951 | 71       |
| Jobber's Salesmen Specialize                                                    | 1934  | 123      | Oxidation of Soap rats                                                            | 1701 |          |
| Vaccing a City Assetment Class                                                  | 10.49 | 1.47     | P                                                                                 |      |          |
| Keeping a City Apartment CleanApr.,<br>Kettle House OperationMay,               |       |          | Packaging, ContractMay,                                                           | 1949 | 37       |
| L                                                                               | 1756  | 44       | Packaging Materials, Testing of                                                   |      | 38       |
| Label ProblemsApr.,                                                             | 1040  | 126      | Packaging Problem, Solving for a CleanerMay,                                      |      | 49<br>33 |
| Label Warnings                                                                  |       |          | Paint Brush CleanersJuly, Palm Oil, Outlook forMar.,                              | 1049 |          |
| Labeling Why Precautionary? June                                                | 1949  | 143      | ParadichlorobenzeneFeb.,                                                          | 1948 | 157      |
| Labeling, Why Precautionary?June, Lanolin Soaps                                 | 1945  | 41       | Dec.,                                                                             | 1948 | 147      |
| Laundry BleachesNov.,                                                           |       | 37       | Paraffin and Microcrystalline WaxesNov.,                                          | 1950 | 125      |
| Laundry BluingsOct.,                                                            | 1948  | 43       | Paste MixersApr.,                                                                 | 1952 | 91       |
| Laundry Practice, Modern                                                        |       | 79       | Pennsalt's CentennialNov.,                                                        | 1951 | 51       |
| Laundry, Soaps for the                                                          |       | 41       | Performance Testing of Dishwashing                                                |      |          |
| Laundry SoursAug.,                                                              |       | 37       | CompoundsSept.,                                                                   |      | 42       |
| Laundry StarchesJan.,                                                           |       | 33       | Perfumes in SoapsOct.,                                                            |      |          |
| Lecithin in SoapsOct.,<br>Lever Expansion PlansJuly,                            |       | 81<br>41 | Perfuming of Liquid SoapsAug.,                                                    | 1040 | 33<br>69 |
| Lever House Opens                                                               |       | 34       | Perfuming of SoapsAug., Perfuming Your Soap (I)June,                              | 1047 |          |
| Lever Plant, NewJuly,                                                           |       | 27       | Perfuming Your Soap (II)Aug.,                                                     | 1947 | 65       |
| Lever Research CenterDec.,                                                      | 1952  | 42       | Pest Control Meeting, Oct. 27-29                                                  | 1947 | 177      |
| Liability, Product for the Soap Manufacturer Nov.,                              |       | 37       | Pest Control Meeting, Oct. 27-29. Oct., Pesticide Label Rules, USDA Issues. Dec., | 1949 | 124      |
| Lindane—a Review of its Development and                                         |       |          | Pesticidal SmokesAug.,                                                            | 1949 | 133      |
| BackgroundSept.,                                                                |       |          | Petroleum Detergents                                                              | 1948 | 75       |
| Lindane Converters for Insect ControlNov.,                                      |       |          | Phenol Coefficients of Five Quaternaries Apr.,                                    | 1952 | 153      |
| Linoleum and Paint Cleaners, Evaluation of July,                                |       |          | PhosphatesJuly,                                                                   | 1950 | 39       |
| Liquid Hand CleanersApr.,                                                       |       | 37       | Phosphates, Action ofJune,                                                        | 1947 | 75       |
| Liquid Hand Soap, Automatic ManufactureDec.,<br>Liquid Soap: Consumer ViewNov., |       | 45<br>49 | Phosphate, New, for SoapNov.,                                                     | 1952 | 134      |
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| Liquid Soap ManufactureNov.,                                                    | 1950  | 69       | Piperonyl Butoxide in Aerosol InsecticidesJune,                                   | 1950 | 145      |
| Liquid Soap, ClarifyingApr.,                                                    | 1948  | 43       | Piperonyl Cyclohexenone, Toxicity Data onJune,                                    | 1947 | 163      |
| Liquid SoapsSept.,                                                              |       | 71       | Planning for a Sales Campaign                                                     | 1947 | 36       |
| Lubrication in Soap PlantsApr.,                                                 |       | 71       | Polishing Cloths, Cleaning andFeb.,                                               | 1947 | 129      |
| M                                                                               |       |          | Port Sunlight, Soan Making atApr.,                                                | 1947 | 41       |
| Maintenance ChemicalsJune,                                                      |       |          | Postwar Problems in Testing DisinfectantsMar.,                                    | 1947 | 129      |
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| Management's Responsibility to EmployeesJuly,                                   |       | 42       | Potash Soap Assn. Holds Open ForumsJune,                                          | 1947 | 44       |
| Man-Hours Spent in Soap MakingJune,                                             | 1950  | 49       | Potash Soapers MeetFeb.,                                                          | 1040 | 123      |
| Materials Handling EquipmentOct.,                                               | 1952  |          | Powder PackagingOct.,                                                             | 1049 | 123      |
| Measuring Detergent Power                                                       | 1950  | 75<br>83 | Powdered Soap Products                                                            | 1040 |          |
| Merchandise Mart Sanitary MaintenanceMay,                                       |       |          | Premiums—Do They Help Soap?Mar.,                                                  | 1948 | 40       |
| Merchandising, SoapApr.,                                                        | 1951  | 41       | Pricing. Soap and Detergents                                                      | 1952 | 37       |
| Mersol Detergent Products, Development ofFeb.,                                  |       | 83       | Print Paste for Soil Cloth, Make-Up of Feb.,                                      | 1951 | 73       |
| Metal Cleaners (Part I)Oct.,                                                    |       | 42       | Process Heating EquipmentNov.,                                                    | 1952 | 87       |
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|                                                                                              |       |          | *                                                                      |      |          |
|----------------------------------------------------------------------------------------------|-------|----------|------------------------------------------------------------------------|------|----------|
| Product Liability InsuranceMay,                                                              | 1950  | 45       | Sanitizers, DetergentAug., I                                           | 051  | 37       |
| Profit SharingFeb.                                                                           | 1950  | ) 47     | Sanitizers, Detergent, Quaternary TypeDec., 19                         |      |          |
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| Pyrethrum—at the CrossroadsJune                                                              | 1952  | 155      | Scouring Cleansers, Household                                          |      |          |
| Pyrethrum, Spectrophotometric EvaluationNov.,<br>Pyrethrum, What's Ahead forOct.,            |       |          | Sealers, Gym Floor                                                     |      |          |
| Pyrethroid, New Synthetic, Toxicity to                                                       | 1230  | 121      | Sealers, TerrazzoJune, 19                                              | 951  | 151      |
| HousefliesNov.,                                                                              | 1949  | 129      | S-raps, Handling of SoapAug., 19                                       | 950  | 63       |
| Pyrethrum Flowers, Effect of Drying Methods                                                  |       |          | Scrub Soaps, End-Use Testing of                                        | 948  | 135      |
| on ToxicantsSept.,                                                                           |       |          | Sealers Gym Floor May 19                                               | 951  | 117      |
| Pyrethrum SynergistsMay,                                                                     | 1949  | 135      | Sealers, Gym Floor                                                     | 951  | 151      |
| Pyrethrum, Synthetic                                                                         | 1932  | 171      | Self-Sterilization of Human SkinOct., 19                               | 952  | 148      |
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| Quaternaries, a Review ofOct.,                                                               | 1949  | 129      | Selling Insecticides to Food PlantsOct., 19                            | 952  | 147      |
| Quaternaries as GermicidesApr.,                                                              | 1949  | 133      | Sequestering Agents                                                    | 951  | 91       |
| Quaternaries as GermicidesApr.,                                                              | 1950  | 125      | Shampoo Damage AwardJan., 19                                           | 951  | 27       |
| Quaternaries as SanitizersMay,<br>Quaternaries, Bactericidal Properties ofJuly,              | 1949  | 145      | Shampoo Damage SuitDec., 19                                            | 949  | 31       |
| Quaternaries, Concerning                                                                     |       |          | Shampoo FormulationJuly, 19                                            | 949  | 61       |
| Quaternaries, How to SellJune,                                                               | 1951  | 145      | ShampoosDec., 19                                                       | 950  | 41       |
| Quaternaries in Hard WaterMar.,                                                              | 1951  | 117      | Shampoos Jan, 19<br>Shampoos Jan, 19                                   |      | 39<br>32 |
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| Quaternaries, Practical Field Tests forAug.,<br>Quaternaries, Toxicity ofFeb.,               | 1948  | 123      | Shampoos, Detergents forOct., 19                                       | 951  | 87       |
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| Quaternary Ammonium Compounds, Inhibitors                                                    |       |          | Silicated Soap, Manufacture ofMay, 19                                  | 948  | 67       |
| for Neutralizing the Germicidal Actions ofSept.,<br>Quaternary Ammonium Compounds, Practical | 1948  | 137      | Silicates in DetergentsJan., 19                                        | 952  | 34       |
| Aspects in ApplicationMar.,                                                                  | 1950  | 126      | Silicates in SoapFeb., 19                                              | 949  | 77       |
| Quaternary Ammonium Germicide, Effect of                                                     | 1200  | 100      | Silicones in Wax PolishesJan., 19                                      | 952  | 117      |
| Metallic Ions on Germicidal ActivityNov.,                                                    | 1951  | 131      | Silicone Car Polishes                                                  | 051  | 114      |
| Quaternary Ammoniums, A Review of the                                                        |       |          | Skin Cleaners, Antiseptic                                              | 952  | 38       |
| Testing                                                                                      | 1948  | 122      | Skin, Effect of Soap onJune, 19                                        | 949  | 45       |
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| Quaternary Inhibitors, Relative Efficiency ofOct.,                                           | 1948  | 134      | Slipperiness of Walkway Surfaces                                       | 948  | 147      |
| Quaternary TestFeb.,                                                                         | 1948  | 159      | Slip Resistance, Field Testing of Waxed Floors                         |      |          |
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| Rat Control Program, Plan UrbanMar.,                                                         |       |          | Soap Boiling, Vocabulary of                                            | 952  | 50       |
| Rat Control Program ReportJuly, Raticidal Potentialities of "WARF-42"Mar.,                   | 1948  | 141      | Soap Business, Looking Back over 60 Yrs Nov., 19                       | 950  | 44       |
| Registration Procedure Under the New Federal                                                 | 1930  | 131      | Soap and Detergent Manufacturers MeetFeb., 19                          |      | 44       |
| Insecticide LawJuly,                                                                         | 1948  | 133      | Soap for New York Schools                                              |      | 73       |
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| Renderers Seek Increase in Fat ExportsMar.,<br>Repellents, AnimalSept.,                      | 1040  | 123      | "Soap" 25 Years AgoAug., 19                                            |      | 49       |
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| Residual Toxicity Tests on Insecticidal                                                      |       |          | Soaps and Synthetic Detergents in the                                  | ~~   | _,       |
| Protective CoatingsApr.,                                                                     | 1948  | 155      | Textile FieldsFeb., 19                                                 | 48   | 47       |
| Resistance of House Flies to InsecticidesNov.,<br>Rinse Test, SwabMay,                       | 1948  | 120      | Soaps and Synthetic Detergents, What's Ahead                           | .=.  | 25       |
| Roach Control                                                                                | 1949  | 131      | for                                                                    | 51   | 35<br>43 |
| Roach Powder EvaluationSept.,                                                                | 1948  | 120      | Soda AshOct., 19                                                       |      | 50       |
| Rodenticide, New, AvailableDec.,                                                             |       |          | Soda Ash—As a Soap Builder                                             |      | 25       |
| Rodent Deterrents for Paper PackagesApr.,                                                    |       |          | Sodium CMC in Synthetic DetergentsMar., 19                             |      | 37       |
| Redenticide Castridge Development                                                            |       |          | Sodium Pyrophosphate                                                   |      | 44       |
| Rodenticide Cartridge Development                                                            |       | 46       | Sodium SilicateDec., 19                                                |      | 46       |
| Rotenone, AssayingJuly,                                                                      |       |          | Soft Soap Manufacture                                                  |      | 40<br>39 |
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| Sales Power in MerchandisingJune, Sales, Retail Detergent, AnalyzedJan.,                     |       | 35       | Specialty SoapsOct., 194 Specialty Soap LinesOct., 194                 |      | 41       |
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| Sanitary Chemicals Featured at Super Market                                                  | . 230 | -        | Sprayers, Modern InsecticideFeb., 195                                  |      |          |
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| Sanitization, Meaning ofMay,                                                                 |       |          | Sulfation of Fats and OilsJune, 195                                    |      |          |
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| Superfatting AgentsOct.,                          | 1949 | 79  | Toxicity of a Synthetic PyrethrinMar.,                            | 1950 | 13  |
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| Synthetic Bar DetergentJune,                      | 1948 | 71  | Toxicity of Soap and DetergentsDec.,                              |      |     |
| Synthetic Detergent LiteratureDec.,               | 1950 | 51  | Trade Secrets, Protection ofJune,                                 | 1952 | 5   |
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| Oct.,                                             |      | 40  | Trisodium Phosphate Dec.,                                         | 1949 | 12  |
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| Synthetic Detergents in the U. K                  |      | 37  | U                                                                 |      |     |
| Synthetic Detergents, the Retail Market forDec.,  | 1948 | 36  | U. S. Sanitary Specialties Corp. PlantAug.,                       | 1950 | 110 |
| Synthetic Detergents vs. SoapFeb.,                | 1948 | 53  | V                                                                 |      |     |
| Synthetic Detergents vs. SoapFeb.,                | 1950 | 44  | Vaporizers, InsecticideAug.,                                      | 1952 | 14  |
| Synthetic Detergents, What the Retailer           |      |     | Vegetable Waxes, Detection of Additives in Nov.,                  | 1952 | 12  |
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| Synthetic Detergents Prod. Nears                  |      |     | **                                                                | 1051 | 11  |
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| Synthetic Detergents-Up-to-Date (Part I) July,    |      | 43  | Washability of Waxed FloorsSept.,                                 |      |     |
| Synthetic Detergents-Up-to-Date (Part II) Aug.,   | 1952 | 52  | Washing Powders, Spray DriedSept.,                                |      |     |
| Synthetic Detergents-Up-to-Date (Part III) Sept., | 1952 | 52  | Water Conditioners, ChemicalApr.,                                 |      |     |
| Synthetic Detergents-Up-to-Date (Part IV)Oct.,    | 1952 | 50  | Water Emulsion WaxesApr.,                                         |      |     |
| Synthetic Gains Seen in Report by ANPAApr.,       |      | 55  | Waterless Hand CleanersApr.,                                      | 1948 | 48  |
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| Synthetics, Identification ofJuly,                |      | 65  | Wax Dispersion, The Electron Microscope                           |      |     |
| Synthetics in Water SystemsOct.,                  |      | 77  | Studies Bright-drying                                             | 1947 | 13  |
| Synthetics, Industrial Uses of                    | 1949 | 77  | Wax Emulsions, Formulation by HLBNov.,                            | 1951 | 128 |
| Synthetics, Toilet Bar FormMay,                   |      | 27  | Wax Films, Tack ofJune,                                           | 1948 | 15  |
| Synthetics, Toxicity of                           | 1040 | 73  | Wax HearingAug.,                                                  | 1949 | 133 |
|                                                   | 2212 | ,,  | Wax Remover EvaluationAug.,                                       | 1952 | 149 |
| T                                                 |      |     | Wax Suspensions, Examination of by                                |      |     |
| Tall OilDec.,                                     | 1949 | 41  | Turbimetric MethodsSept.,                                         | 1949 | 129 |
| Tall Oils, Composition of GermanMar.,             |      | 77  | Wax Wear ResistanceAug.,                                          |      |     |
| Tallow AcidsAug.,                                 | 1948 | 45  | Waxes, Detection of Additives in VegetableDec.,                   |      |     |
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| Test Cage, Simple InsectJune,                     | 1048 |     | Whale OilJune,                                                    |      |     |
| Testing Insecticide Sprays                        | 1048 | 133 | Whale OilApr.,                                                    | 1040 | 40  |
| Testing Quaternary GermicidesJan.,                | 1050 | 121 | What the Distributor Expects from the                             | 1242 | 42  |
| Feb.,                                             |      |     | ManufacturerJan.,                                                 | 1049 | 13  |
| Textile SoapsSept.,                               | 1050 | 36  |                                                                   |      |     |
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| Toilet SoapsSept.,                                |      | 32  | Wood PreservativesNov.,                                           |      |     |
| Oct.,                                             |      | 47  | Wool WaxJuly,                                                     |      |     |
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#### AEROSOL FLAMMABILITY TEST

(From Page 228)

open is directed into upper half of the open end and above the ignition source for one minute. Any significant propagation of flame through the vapor-air mixture away from the ignition source shall be considered a positive result, but any minor and unsustained burning in the immediate area of the ignition source shall not be considered a positive result.

#### 6. CLOSED DRUM TEST

This test is conducted with the hinged cover dropped into position to rest free against the end and to close the open end of the drum to make a reasonably secure but not necessarily completely air-tight shell. The top shutter only is opened and the spray is jetted into the

drum through this shutter with valve fully opened for one minute. After clearing the atmosphere in the drum, the jetting is repeated similarly through the side and bottom shutter in turn, and in each case with the other two shutters closed. Any explosion or rapid burning of the vapor-air mixture sufficient to cause the hinged cover to move is considered a positive result.

#### TEST STANDARD

7. When any significant propagation of flame through the vapor-air mixture away from the ignition source occurs, as indicated under (5), or, when any explosion or rapid burning of the vapor-air mixture is sufficient to cause the hinged cover to move in Closed Drum Test (6), either occurrence would be sufficient to class the unit tested as Flammable.

#### FEDERAL SPECIFICATIONS

(From Page 222)

#### Soap; Laundry, Ordinary, Bar P-S-591c

This specification covers an ordinary laundry bar soap, containing rosin, for use in heavy-duty laundering, such as heavily-soiled occupational clothing, where normal wash temperatures are involved. Ordinary laundry bar soap shall be of but one type.

The composition of the soap shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 36 per cent.

The soap shall be a well-made, uniformly mixed laundry or common soap in bar form, made from soda, rosin, and fats. The soap shall have a uniform color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on fabrics or objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

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